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Aero Engines Aftermarket Market Forecasts to 2032 – Global Analysis By Engine Type (Turbofan Engines, Piston Engines, Turboprop Engines and Turboshaft Engines), Service Type, Aircraft Type, End User and By Geography

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Abstracts

According to Stratistics MRC, the Global Aero Engines Aftermarket Market is accounted for $52.8 billion in 2025 and is expected to reach $93.5 billion by 2032 growing at a CAGR of 8.5% during the forecast period. The Aero Engines Aftermarket refers to the global industry focused on maintenance, repair, and overhaul (MRO), and replacement services for aircraft engines after their initial sale. It encompasses activities such as engine inspections, part replacements, performance upgrades, and long-term service agreements like power-by-the-hour contracts. This market supports airlines, military fleets, and private operators in extending engine life, ensuring safety, and optimizing performance. Driven by rising air traffic and aging fleets, the aftermarket plays a critical role in sustaining aviation operations. It also fosters innovation in predictive maintenance and digital diagnostics, making it a vital component of the aerospace ecosystem.

Market Dynamics:

Driver:

Rising global air traffic

The Aero Engines Aftermarket Market is driven by the steady rise in global air traffic, which increases the demand for engine maintenance and overhaul services. As airlines expand their fleets and flight frequencies to meet growing passenger and cargo

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volumes, the need for reliable engine performance intensifies. This trend is especially prominent in emerging markets, where aviation infrastructure is rapidly developing. The aftermarket ensures operational efficiency and safety, making it essential for sustaining the aviation industry's growth and long-term performance.

Restraint:

High cost of engine overhauls

A major restraint in the market is the high cost of engine overhauls. These procedures require specialized labor, advanced tools, and expensive components, placing financial pressure on airlines and operators. Smaller carriers and regional fleets often struggle to absorb these costs, impacting profitability and maintenance schedules. Additionally, fluctuating material prices and supply chain disruptions can further inflate expenses. This financial burden may slow aftermarket adoption, especially among operators with limited budgets or older aircraft requiring frequent servicing.

Opportunity:

Technological advancements

Technological advancements offer significant opportunities for the Aero Engines Aftermarket Market. Innovations in predictive maintenance, digital diagnostics, and AI-driven analytics are revolutionizing engine servicing. These technologies enable early fault detection, reduce downtime, and optimize performance. Smart sensors and cloud-based platforms allow real-time monitoring and data-driven decision-making. As the industry embraces digital transformation, aftermarket providers can deliver more efficient, cost-effective, and customized solutions.

Threat:

Regulatory complexity

Regulatory complexity presents a notable threat to the market. Aviation safety standards, environmental regulations, and certification requirements vary across regions, complicating compliance for aftermarket providers. Navigating these frameworks demands significant resources and expertise, especially for international operations. Delays in approvals or changes in regulations can disrupt maintenance schedules and increase costs. Moreover, evolving emissions standards and

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sustainability mandates require continuous adaptation. Thus it hinders the growth of the market.

Covid-19 Impact:

The COVID-19 pandemic had a significant impact on the market. Travel restrictions and reduced flight operations led to a sharp decline in engine maintenance demand. Airlines deferred non-essential overhauls and faced budget constraints, slowing aftermarket activity. However, the crisis accelerated digital adoption and highlighted the importance of flexible, remote diagnostics. As air travel recovers, the market is rebounding, with renewed focus on resilience, cost-efficiency, and health safety. Post-pandemic strategies now prioritize smarter, more adaptive maintenance solutions to ensure operational continuity.

The leasing companies segment is expected to be the largest during the forecast period

The leasing companies segment is expected to account for the largest market share during the forecast period, as growing number of aircraft operated under lease agreements, lessors play a crucial role in managing engine maintenance. They prioritize cost-effective, standardized MRO solutions to ensure asset value and performance. Leasing firms often negotiate long-term service contracts, driving consistent aftermarket demand. As airlines seek financial flexibility and operational efficiency, the leasing model expands, making this segment the largest contributor to market share and a key driver of aftermarket growth.

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

Over the forecast period, the military aircraft segment is predicted to witness the highest growth rate, due to increased defense spending, fleet modernization, and rising operational demands. Military engines require specialized maintenance to meet rigorous performance and safety standards. Governments are investing in advanced MRO capabilities and long-term service programs to support mission readiness. As geopolitical tensions and strategic operations intensify, the need for reliable engine support grows, propelling rapid expansion in this high-value segment.

Region with largest share:

During the forecast period, the Asia Pacific region is expected to hold the largest market

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share, due to region's booming aviation industry, expanding middle class, and infrastructure investments for engine maintenance services. Countries like China, India, and Southeast Asian nations are witnessing rapid fleet growth and airport development. Government support for aerospace innovation and rising domestic air travel further boosts aftermarket activity. Asia Pacific's dynamic aviation landscape and strategic focus on modernization position it as the leading regional market.

Region with highest CAGR:

Over the forecast period, the North America region is anticipated to exhibit the highest CAGR, owing to region's advanced aerospace ecosystem, strong regulatory framework, and emphasis on technological innovation fuel growth. U.S. and Canadian operators are investing in predictive maintenance, digital MRO platforms, and sustainable engine solutions. Defense contracts and commercial fleet upgrades also contribute to rising aftermarket demand. With a focus on efficiency, safety, and modernization, North America leads in adopting cutting-edge engine support strategies, driving rapid market expansion.

Key players in the market

Some of the key players in Aero Engines Aftermarket Market include Rolls-Royce, SR Technics, General Electric Aviation, Turkish Technic, Pratt & Whitney, Hanwha Aerospace, Safran Aircraft Engines, ITP Aero, MTU Aero Engines, Delta TechOps, Lufthansa Technik, AAR Corp, StandardAero, ST Engineering Aerospace, and Air France Industries KLM Engineering & Maintenance.

Key Developments:

In September 2025, GE Aerospace and BETA Technologies have entered a strategic partnership (with a planned USD 300 million equity investment) to co-develop hybrid-electric turbogenerator systems for advanced air mobility applications, aiming to boost range, speed, payload and lower operating costs.

In May 2025, GE Aerospace and Qatar Airways have agreed on a landmark deal for over 400 engines (60 GE9X + 260 GEnx) plus spares and service support the largest widebody engine contract in GE history strengthening ties and boosting the Gulf's aviation growth.

Engine Types Covered:

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- Turbofan Engines
- Piston Engines
- Turboprop Engines
- Turboshaft Engines

Service Types Covered:

- Maintenance, Repair, and Overhaul (MRO)
- Spare Parts
- Engine Leasing

Aircraft Types Covered:

- Commercial Aircraft
- Military Aircraft
- Business Jets
- Helicopters

End Users Covered:

- Airlines
- Independent Service Providers (ISPs)
- Original Equipment Manufacturers (OEMs)
- Leasing Companies

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Regions Covered:

- North America
  - US
  - Canada
  - Mexico
- Europe
  - Germany
  - UK
  - Italy
  - France
  - Spain
  - Rest of Europe
- Asia Pacific
  - Japan
  - China
  - India
  - Australia
  - New Zealand
  - South Korea
  - Rest of Asia Pacific

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South America

Argentina

Brazil

Chile

Rest of South America

Middle East & Africa

Saudi Arabia

UAE

Qatar

South Africa

Rest of Middle East & 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 2024, 2025, 2026, 2028, and 2032
- 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

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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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Note: Tables for North America, Europe, APAC, South America, and Middle East & Africa Regions are also represented in the same manner as above.

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