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South & Central America Aircraft Engine Forging Market Size and Forecast (2021 - 2031), Regional Share, Trend, and Growth Opportunity Analysis Report Coverage: By Forging Type (Closed Die Forging and Seamless Rolled Ring Forging), Material Type (Nickel Alloy, Titanium Alloy, Aluminum, and Others), Aircraft Type (Commercial Aircraft, Military Aircraft, and General Aviation), and Application (Fan Case, Combustion Chamber Outer Case, Turbine Disc, Rotors, and Others)

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Abstracts

The South & Central America Aircraft Engine Forging Market is projected to grow significantly, reaching an estimated US$ 414.7 million by 2031, up from US$ 288.8 million in 2024, reflecting a compound annual growth rate (CAGR) of 5.4% from 2025 to 2031. This growth is driven by various factors, including the region's rich natural resources and the increasing demand for advanced aerospace components.
The South & Central America region encompasses key countries such as Brazil and Argentina, which are not only rich in natural resources like oil and minerals but also play a pivotal role in the aerospace sector. Brazil, home to Embraer, one of the leading aircraft manufacturers globally, is central to the aircraft engine forging market. The country's aerospace industry is thriving, particularly in the production and maintenance of regional jets, which drives the demand for forged engine components. Government initiatives aimed at bolstering industrial capabilities and defense programs have further stimulated local forging and machining industries.
Argentina, while smaller in terms of aerospace output compared to Brazil, is actively

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modernizing its aviation and defense infrastructure. This modernization is expected to create a parallel demand for aircraft engine parts and support services, contributing to the overall market growth.

Several key factors are influencing the growth of the aircraft engine forging market in South & Central America. Firstly, the rise in intra-regional air traffic and the need for fleet modernization are compelling airlines to invest in more efficient engines, thereby increasing the demand for advanced forged components. Additionally, there is a strong push towards localizing aerospace manufacturing, which aims to reduce reliance on imports and enhance domestic capabilities in forging and precision manufacturing processes.

A notable development occurred in January 2025 when Argentina acquired 25 F-16 aircraft from Denmark, marking a significant step in modernizing its air force and underscoring the region's commitment to upgrading its defense capabilities. This acquisition is expected to further stimulate demand for aircraft engine components.

The market segmentation of the South & Central America Aircraft Engine Forging Market reveals several insights. By forging type, the market is divided into Closed Die Forging and Seamless Rolled Ring Forging, with Closed Die Forging holding the largest market share in 2024. In terms of material type, the market is segmented into Nickel Alloy, Titanium Alloy, Aluminum, and Others, with Titanium Alloy leading the market share. When categorized by aircraft type, Commercial Aircraft dominates the market, while the application segment shows that the Combustion Chamber Outer Case is the most significant application area.

As the aerospace industry shifts towards advanced, fuel-efficient, and lightweight aircraft, the demand for high-performance engine components is accelerating. Forged engine parts are essential for meeting the stringent performance and safety standards of modern aviation due to their superior strength, fatigue resistance, and structural integrity. Next-generation aircraft engines operate under extreme conditions, necessitating components that can withstand high temperatures and pressures. Forging processes, particularly those involving high-temperature alloys like titanium and nickel-based superalloys, are crucial for producing turbine disks, shafts, and compressor blades that meet these demands.

The transition to sustainable aviation, including hybrid and electric propulsion systems, further amplifies the need for precision-forged components. These emerging technologies require innovative design architectures and materials, presenting opportunities for forging companies to expand their capabilities. The increasing demand for air travel in emerging markets and the rising number of aircraft fleet upgrades create a robust pipeline for engine component production.

Investment in digital forging technologies, automation, and material science is enabling manufacturers to produce parts with tighter tolerances, reduced lead times, and

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enhanced performance. Collaborations between aerospace original equipment manufacturers (OEMs) and forging suppliers are fostering innovation and strengthening supply chains to meet future demands. In summary, the evolution of next-generation aircraft represents a significant technological advancement for the aviation sector and serves as a catalyst for growth in the aircraft engine forging industry. Companies that invest in advanced forging processes and adapt to the changing aerospace landscape are well-positioned to capitalize on the industry's transformation.
By country, Brazil is the largest market in the region, driven by its robust aerospace industry, which relies heavily on Embraer for the production of commercial, military, and executive aircraft. However, Brazil's capabilities in aircraft engine forging still require development, leading to a reliance on imports and international partnerships for high-precision components. The country is actively investing in advanced manufacturing technologies, which may open avenues for technology exchange and strategic collaborations, enhancing Brazil's engine forging capabilities and reducing import dependence. This development is crucial for Brazil's competitive position in the global aerospace market.

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