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Europe 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 Europe Aircraft Engine Forging Market is projected to grow significantly, reaching an estimated US$ 1,187.4 million by 2031, up from US$ 764.7 million in 2024, reflecting a compound annual growth rate (CAGR) of 6.6% from 2025 to 2031. This growth is primarily driven by the increasing demand for next-generation aircraft, coupled with a strong emphasis on fuel efficiency and reduced emissions, which are propelling the adoption of forged components across the region.
Europe is home to several leading aircraft engine manufacturers, including Rolls-Royce, Safran, and MTU Aero Engines. These companies are heavily investing in advanced forging technologies to improve the performance and durability of their products. The expansion of the commercial aviation sector, along with robust defense spending in key countries such as the UK, France, and Germany, is further supporting the growth of the aircraft engine forging market. Strategic collaborations and research and development initiatives focused on lightweight materials and high-performance alloys are enhancing Europe’s position as a center for aerospace innovation.

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A notable development in the market occurred in February 2024, when Safran announced the establishment of a new foundry in Rennes, Brittany, dedicated to producing turbine blades for the M88 military and CFM LEAP engines. This facility, expected to be operational by 2027, will complement the existing Gennevilliers plant and strengthen France's strategic capabilities in aerospace manufacturing.

The market is characterized by the dominance of Germany, France, and the UK, which benefit from well-established aerospace ecosystems, a skilled workforce, and significant investments in research and development. The integration of additive and hybrid manufacturing processes with traditional forging techniques is enhancing the quality and performance of critical engine components. For instance, in February 2025, Otto Fuchs / Weber Metals in Germany expanded their forging capabilities by incorporating high-tonnage open- and closed-die presses, including an 8 MN isothermal press designed for forging titanium aluminide turbine blades, targeting the production of lighter, next-generation engine parts.

The Europe Aircraft Engine Forging Market can be segmented by various criteria. In terms of 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. Material-wise, the market includes Nickel Alloy, Titanium Alloy, Aluminum, and others, with Titanium Alloy leading in market share. By aircraft type, the segments include Commercial Aircraft, Military Aircraft, and General Aviation, where Commercial Aircraft is the largest segment. Finally, in terms of application, the market is segmented into components such as Fan Case, Combustion Chamber Outer Case, Turbine Disc, Rotors, and others, with the Combustion Chamber Outer Case being the most significant segment in 2024.

Technological advancements are playing a crucial role in enhancing precision, efficiency, and material performance, which are essential for meeting the stringent requirements of aerospace applications. The integration of advanced computer-aided design (CAD) and computer-aided manufacturing (CAM) systems has revolutionized the forging process, allowing for more accurate modeling and simulation, which reduces trial-and-error cycles and optimizes die design. These advancements lead to improved dimensional accuracy and consistency in forged engine components, such as turbine disks and compressor blades.

Innovations in isothermal and near-net-shape forging processes have transformed the production of complex aerospace parts. These methods operate at controlled temperatures, minimizing material waste while achieving superior mechanical properties, which is critical for components that must withstand extreme temperatures and stresses in aircraft engines. The use of advanced materials, including titanium and nickel-based superalloys, is facilitated by these improved forging techniques. Additionally, innovations such as vacuum and inert gas forging help reduce oxidation

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and contamination, preserving the integrity of the materials used. Real-time process monitoring and control systems further ensure the quality and traceability of critical engine parts.

By country, the Europe Aircraft Engine Forging Market is segmented into Germany, France, Italy, the United Kingdom, Russia, and the Rest of Europe, with the United Kingdom holding the largest market share in 2024. The UK is recognized as a global hub for aerospace development, hosting major OEMs and Tier 1 suppliers, which drives demand for high-performance, precision-forged components used in aircraft engines. The country's continued investments in sustainable aviation technologies and the resurgence of commercial aviation post-pandemic are expected to fuel market expansion. Strategic partnerships, research and development incentives, and government-backed initiatives like the Aerospace Growth Partnership (AGP) enhance the competitiveness of the industry. The presence of Rolls-Royce, a leading aircraft engine manufacturer, further strengthens the UK aerospace sector, alongside other notable forging companies such as Somers Forge, Victoria Drop Forging Co. Ltd., and GKN Aerospace Services Limited.

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