

Middle East & Africa 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 Middle East and Africa (MEA) Aircraft Engine Forging Market is projected to grow significantly, reaching an estimated US\$ 319.2 million by 2031, up from US\$ 211.6 million in 2024. This growth represents a compound annual growth rate (CAGR) of 6.2% from 2025 to 2031. The region's strategic location, serving as a nexus between Europe, Asia, and Africa, is a key driver of increased air traffic and military operations, thereby enhancing the demand for advanced and reliable aircraft engine components.

The recent Dubai Airshow in November 2023 highlighted the robust growth of the aviation sector in the Middle East. Notably, GE Aerospace announced record orders for 202 GE9X engines from Emirates, along with multiple GEnx units for TAAG and Royal Air Maroc, and 240 CFM LEAP engines for Air Arabia, accompanied by long-term service agreements. This surge in engine orders is expected to significantly boost the demand for high-thrust forging components, such as turbine discs and fan cases, which are primarily made from nickel and titanium alloys.

Countries in the Middle East, especially those in the Gulf Cooperation Council (GCC),

are heavily investing in their aerospace sectors, including the development of forging capabilities to support both commercial and defense aviation. In contrast, Africa's aviation infrastructure is undergoing modernization, although its forging industry is still in the early stages compared to more developed markets. However, partnerships with global aerospace companies and investments in technology transfer are paving the way for enhanced production capabilities. For instance, in February 2025, GE Aerospace announced an additional US\$10 million investment in its Middle East maintenance, repair, and overhaul (MRO) operations in Dubai and Doha, aimed at expanding capacity for CFM LEAP engines and preparing for the GE9X engines used in Boeing 777X jets.

The MEA aircraft engine forging market is expected to experience steady growth, driven by increasing aerospace activities, military modernization initiatives, and a growing emphasis on self-reliance in critical aerospace manufacturing.

Market Segmentation Analysis

The market is segmented by various factors:

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 Type: Segmented into Nickel Alloy, Titanium Alloy, Aluminum, and Others, with Titanium Alloy leading the market in 2024.

Aircraft Type: The market includes Commercial Aircraft, Military Aircraft, and General Aviation, where Commercial Aircraft dominated in 2024.

Application: This includes Fan Case, Combustion Chamber Outer Case, Turbine Disc, Rotors, and Others, with the Combustion Chamber Outer Case holding the largest share in 2024.

Market Outlook

The rapid growth of the commercial aviation sector, particularly in emerging economies, is driving the demand for new aircraft to accommodate increasing passenger traffic. Airlines are investing significantly in fleet modernization to enhance fuel efficiency and reduce emissions, necessitating the latest generation of engines. Consequently, engine manufacturers are ramping up production to meet these demands, which in turn increases the need for forgings—critical components known for their strength and reliability.

For example, Cirium's analysis indicates a notable increase in aircraft engine production in 2025, as Original Equipment Manufacturers (OEMs) respond to ongoing supply chain challenges and rising demand for new deliveries and spare parts. GE Aerospace has increased its production of LEAP engines by approximately 15-20%, targeting around 1,650 engines, which could yield nearly 690 complete shipsets after accounting for spares. Similarly, RTX (Pratt & Whitney) has reported a 14% increase in large commercial engine manufacturing, shifting its strategy slightly towards more engine installations rather than accumulating spares.

The defense sector is also investing heavily in upgrading and expanding its aircraft engine capabilities, further driving demand. Military aircraft require high-performance engine components forged from superior materials to endure extreme operational conditions, making forging a crucial manufacturing method. The forging process provides unmatched advantages in producing engine parts that require high strength, fatigue resistance, and the ability to perform under elevated temperatures. Components such as turbine disks, compressor blades, and shafts benefit from the robust grain structure that forging imparts, which cannot be replicated to the same extent through casting or machining.

As engine designs evolve to become more powerful and efficient, the demand for forged components is expected to grow correspondingly. For instance, in September 2024, RTX's Pratt & Whitney secured a contract worth up to US\$1.3 billion to advance its F135 Engine Core Upgrade (ECU), aimed at enhancing durability and performance for the F-35 Block 4 and beyond.

Advancements in manufacturing technologies and automation have also improved the efficiency and scalability of forging processes, enabling manufacturers to meet the rising production volumes while maintaining high-quality standards. The combination of increasing air traffic, fleet modernization efforts, and technological advancements in forging is driving the growth of the aircraft engine forging market in the Middle East and Africa.

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