

Airframe MRO Market Size and Forecasts (2020 - 2030), Global and Regional Share, Trends, and Growth Opportunity Analysis Report Coverage: By Aircraft Type (Fixed Wing Air Craft and Rotary Wing Aircraft) and Component (Fuselage, Wings and Rotors, Landing Gear, and Others)

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Abstracts

The airframe MRO market was valued at US\$ 23,657.85 million in 2022 and is projected to reach US\$ 32,896.27 million by 2030; it is expected to record a CAGR of 4.2% from 2022 to 2030.

Growing Integration of Digital Technology in Airframe MRO Market Growth

The implementation of digital technologies is a necessary step toward the growth of MRO companies; this helps them create continuous data flow through various levels of the supply chain, further streamlining the communication between the stakeholders and accelerating innovation in various operations. The digital revolution in the aviation industry significantly impacts all areas of the supply chain of the aviation industry, including aircraft operations, air traffic management, and aircraft and component manufacturing and servicing. Data-driven technologies such as data analytics, which help in tracking airframe MRO activities in real-time, also optimize the air travel experience of crew and passengers. AI, machine learning, and other advanced technologies facilitate the airline crew and management to understand the airworthiness of the aircraft. For instance, in March 2020, the US Air Force's Air Education and Training Command (AETC) started developing a new competency-based virtual and augmented reality (VR/AR) training solution for aircraft maintenance.

Also, the airframe MRO market players incorporate AI technologies to boost their procedures by easily and efficiently conducting visual checks and understanding the degree of maintenance and repairs required on the aircraft. Thus, the increasing integration of digital technologies such as AI and machine learning drives the airframe MRO market.

The airframe MRO market share in Europe is segmented into France, Germany, Italy, Russia, the UK, and the Rest of Europe. With more than 20,000 flights a day and ~500 million passengers traveling every year by air, Europe is accredited to have the world's busiest airspace. The strength of the regional economy and growing air travel, which is increasing the use of MRO services due to growing flying hours, are a few of the significant factors driving the demand for airframe MRO services in Europe. The requirement for new modern aircraft in the commercial and military aircraft fleets in the region is also driving the market for airframe MRO services. Airlines in Europe need to adhere to the stringent rules and regulations set by the European Aviation Safety Agency (EASA) to ensure passenger safety, which is directly impacting the growth of the airframe MRO market. Airframe MRO aids in the maintenance process and improves the aircraft's reliability and productivity.

In addition, the market in Europe is influenced by the company's inorganic market strategies, such as partnerships, which help establish relationships with other suppliers while also allowing the company to gain market position. For example, Lufthansa Technik, Germany's largest MRO service provider, teamed up with Collins Aerospace, a US-based aerospace and defense products supplier. The collaboration aims to provide maintenance services for the Airbus A380 main landing gear.

As a result of the collaboration, the German airframe MRO market is expected to expand, which will eventually boost the Europe airframe MRO market growth. FL Technics, Lufthansa Technik, and Rolls-Royce Plc are among the players operating in the Europe airframe MRO market share. For instance, FL Technics, a global provider of airframe MRO services, acquired Wright International. FL Technics MRO offers a broad range of line maintenance services for wide-body and narrow-body aircraft. According to The Insight Partners analysis, in 2023, Europe had a fleet of more than 5,000 operational commercial aircraft, which is expected to reach ~7,000 commercial aircraft fleet by the end of 2033. Such a huge number of operating commercial aircraft will further generate the demand for MRO services in the region. Moreover, such an increase in the number of aircraft fleets across Europe is expected to bolster the requirement of MRO for major aircraft components such as airframes.

AAR, Barnes Group Inc, Collins Aerospace, Delta TechOps, FLTechnics, GE Aviation, Lufthansa Technik, Rolls-Royce plc, Singapore Technologies Engineering Ltd, and Turkish Technic Inc are among the key airframe MRO market players profiled during this study. In addition, several other important airframe MRO market players have been studied and analyzed during the study to get a holistic view of the airframe MRO market and its ecosystem.

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