

Aviation Maintenance, Repair, and Overhaul (MRO) Software Market - Growth, Trends, Covid-19 Impact, and Forecasts (2023 - 2028)

Market Report | 2023-01-23 | 85 pages | Mordor Intelligence

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Report description:

The aviation maintenance, repair, and overhaul (MRO) software market is projected to grow with a CAGR of more than 3% during the forecast period (2022 - 2027).

The COVID-19 pandemic impacted the global aviation industry immensely. Due to decreased passenger traffic and limited aircraft movements, the market for maintenance, repair, and overhaul was affected significantly in 2020. Nevertheless, as travel restrictions decreased in 2021 and as aircraft movements gradually increased, the demand for aircraft maintenance is expected to witness growth in the coming years. This is expected to help the revival of the related aviation MRO software industry.

Owing to the dynamic nature of the technology, the use of MRO software across the aviation industry is picking up pace at a rapid rate. The lockdown and halt of operations in the aviation industry during the pandemic have increased the advancements in this technology. Also, due to economic constraints, major aircraft users have opted to purchase or lease used aircraft. This led to an increased demand for aircraft overhauls and drastically improved the market opportunities for the usage of MRO software across the industry.

Furthermore, the advent of Artificial Intelligence (AI) has opened paths to precision repair operations and predictive maintenance, further driving the stakeholders to depend on the MRO software. With a keen interest in the field and clear advantages, major airlines and MRO companies are investing in advanced MRO software to carry out regular operations.

Aviation MRO Software Market Trends

MRO Segment Registered the Highest Market Share in 2021

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By the end of 2021, based on the end-user segment, the MROs sub-segment had the highest revenue share in the market. This is due to the increasing demand for aviation maintenance software and services from MRO companies. With the growing aircraft fleet, it is expected that the workload of the MRO facilities will increase by over 50% in the next decade, which means that the necessity of decreasing the time for MRO will increase. Also, the outsourcing of support contracts has increased a lot over the recent past. Hence, MROs are incorporating software-based maintenance, inventory management, and support techniques to react more quickly to customer demands and to increase their efficiency through better process management and improved predictability. On this note, in November 2021, MRO Holdings, a major provider of airframe maintenance in the North and Central America region, awarded multi-year software as a service (SaaS) subscription contract to EmpowerMX. Also, the introduction of newer generation aircraft has raised new challenges in terms of support services management, which has stimulated the adoption of software by the MROs to enhance the quality of their offerings to the clients. However, OEMs are targeting in-service support contracts to compete with independent MROs by showcasing their experience in designing and building aircraft. This trend is expected to challenge the growth of the MRO segment in the years to come.

Asia Pacific Region to Dominate the Market During the Forecast Period

The Asia-Pacific region is estimated to register the highest CAGR in the market. The presence of a large aircraft fleet is expected to drive the demand for the MRO software market in the region significantly. For instance, as of 2021, more than 7900 commercial aircraft were present in the Asia Pacific region, indicating the high potential demand for MRO software in the region. The average aircraft fleet of the region is also higher compared to most of the global markets, and hence the demand for aircraft MRO is also higher. China and India are one of the fastest-growing markets for Aviation in the Asia-Pacific region. Growing aircraft fleet and the presence of major aircraft maintenance and repair facilities in countries like China and Singapore, which are adopting the MRO software, are the main reasons for the high growth of the Aviation Maintenance, Repair, and Overhaul Software in the Asia-Pacific region. Various maintenance activities are being done by various airlines, MROs, and OEMs, especially for the aircraft in the region. For instance, in April 2021, the Indian LCC Indigo announced that it had extended its existing contract with Air France Industries KLM Engineering & Maintenance (AFI KLM E&M) for Aircraft Component Overhauls & Repairs. With the extension, AFI KLM E&M will support the Aircraft Component overhauls of IndiGo's Airbus fleet of 350 A320 family aircraft. Such developments are expected to drive the growth of the related MRO software market during the forecast period.

Aviation MRO Software Market Competitor Analysis

Ramco Systems, IBM Corporation, IBS Software, Rusada, and AerData B.V. are some of the major players in the market currently. The market is fragmented, with many players providing different software solutions for different processes of the MRO. The incorporation of technologies like AI for predictive maintenance is something the customers are looking for. For instance, Ramco Systems announced that the company would implement Ramco Aviation M&E MRO Software V5.8 to the Iraqi Airways Company. The software allows the airline to manage complete records of its aircraft and enable its staff to support their operations and receive alerts on the go through its Mobility module. The integration of new software will enhance flexibility, optimize aircraft availability and reduce friction. Research in technologies like these will help the players to showcase advanced products and gain new contracts. Also, the efficiency and speed of the maintenance are something the MRO providers are looking for, and work is being done to speed up the process of maintenance overall, and players are expected to release new software that speeds up the MRO process. Also, the market is in a phase of transition from on-premises software to cloud-based software, which will open up new opportunities for the new and existing players.

Additional Benefits:

The market estimate (ME) sheet in Excel format
3 months of analyst support

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