

Crew Oxygen Systems - Market Share Analysis, Industry Trends & Statistics, Growth Forecasts (2024 - 2029)

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Abstracts

The Crew Oxygen Systems Market size is estimated at USD 664.55 million in 2024, and is expected to reach USD 872.82 million by 2029, growing at a CAGR of 7.18% during the forecast period (2024-2029).

Key Highlights

The rapid growth of the commercial aerospace industry across the globe is a key factor influencing the crew oxygen systems market. Aircraft fleet expansion initiatives by major airlines, the rising demand for commercial aviation, and military aircraft modernization projects collectively contribute to increased demand for crew oxygen systems. The increase in air passenger traffic is leading to more aircraft orders around the world to meet market demand. This, in turn, leads to increased cabin crew strength, thus ultimately leading to a significant rise in demand for crew oxygen systems.

Moreover, the military end users influence the demand as defense forces worldwide prioritize advancements in aviation technology. The need for sophisticated oxygen systems is driven by evolving military strategies that involve extended flight durations and operations at high altitudes.

International aviation safety standards, such as those set by the Federal Aviation Administration (FAA) and the European Union Aviation Safety Agency (EASA), significantly influence the demand for crew oxygen systems. These safety standards and compliances, which include safety certification requirements and contribute to an evolving stringent regulatory landscape, directly shape the design, development, and approval processes of critical aircraft components. On the other hand, the high cost

associated with the development of oxygen systems hinders the market growth.

Crew Oxygen Systems Market Trends

Oxygen Storage Systems Dominates the Market During the Forecast Period

Oxygen storage systems are designed to store or generate a supply of pure oxygen and to regulate, dilute as required, and then distribute that oxygen to crew or passengers. Depending upon the type and the role of the aircraft concerned, an oxygen system may be used for normal operations, to provide supplemental oxygen for specific situations, or to provide emergency oxygen in the event of smoke, fire, fumes, or loss of pressurization.

Regulations for the provision and use of supplemental or emergency oxygen systems are based on the guidance provided by the International Civil Aviation Organization (ICAO) Standards and Recommended Practices (SARPS). The regulations differentiate between pressurized and non-pressurized aircraft and then provide specific requirements based on the altitude at which the flight is to be conducted. For instance, in June 2022, Diehl Aviation built its own emergency oxygen supply generator for onboard passenger aircraft.

Furthermore, in 2023, in total, Boeing and Airbus delivered 528 and 735 aircraft compared to 480 and 663, respectively, in 2022. The official A320 production rate is 45 aircraft per month and has remained at this level since the end of 2021. On average, the company delivered 48 A320s per month in 2023 compared to 43 in 2022. Thus, an increase in aircraft deliveries will create the market to propel during the forecast period.

North America Holds Highest Shares in the Market During the Forecast Period

North America holds the highest shares in the crew oxygen systems market, owing to the high demand for air travel in the US, large fleet size, and significant investments in defense spending. The US Department of Transportation (DoT) announced that the air passenger traffic number in 2022 crossed around 854 million. Boeing is among the leading aircraft suppliers in the United States and is responsible for creating significant demand for crew-related oxygen systems. The US airline industry is facing a challenge with the pilot shortage. However, this presents an opportunity for growth and development in the aviation sector. The high demand for travel in the US has created a

need for more pilots. Whenever new orders for aircraft are placed, the corresponding demand for oxygen systems is also generated.

A total of 1500+ new passenger aircraft were delivered in the United States between 2017 and 2022, and a further 2000+ new jets are expected to be delivered to the region during 2023-2029. Carleton Technologies Inc., Collins Aerospace, and Safran Aerosystems were major suppliers of oxygen systems in the United States for Boeing B737 and B787 aircraft. The United States accounted for 80% of the total air passenger traffic in North America in 2022. Therefore, the United States is expected to generate the highest demand for new aircraft deliveries compared to other North American countries over the forecast period. Airlines are looking to expand their fleet size to cater to the growing demand for air travel, which may generate significant demand for crew oxygen systems.

Furthermore, in the general aviation sector, original equipment manufacturers (OEMs) have emphasized on innovation and launched new products. For instance, in 2023, Aerox, a US-based company, offered aircraft oxygen systems related to turboprop and light jets. These solutions consist of portable oxygen systems, emergency descent gear, and various oxygen system accessories. This is also expected to aid the growth of oxygen systems in the country's general aviation sector.

Crew Oxygen Systems Industry Overview

The crew oxygen systems market is semi-consolidated in nature due to the presence of a few local and global players holding significant shares in the market. The key aerospace players such as The Boeing Company, Bombardier Inc., and Airbus SE shape market dynamics through their aircraft production and technology integration initiatives.

The key market players in the crew oxygen systems market include RTX Corporation, Safran, Parker-Meggitt (Parker Hannifin Corporation), Rostec, and Diehl Stiftung & Co. KG. Furthermore, key OEMs highly invest in research and development to develop lightweight and highly advanced oxygen systems. This growth trend highlights the huge demand for reliable and advanced oxygen systems to support the expanding global fleet. For instance, in June 2023, Safran announced that it had entered into exclusive negotiations with Air Liquide to acquire the aeronautical oxygen and nitrogen activities of Air Liquide's advanced Technologies. This acquisition project would complement

Safran Aerosystems' product range especially on-board oxygen generation systems (OBOGS) will enable Safran to become a leading player through systems integration. The crew oxygen systems market exhibits a semi-consolidated structure, characterized by the dominant presence of a select number of local and global players holding substantial market shares. Key aerospace industry leaders, including The Boeing Company, Bombardier Inc., and Airbus SE, play pivotal roles in shaping market dynamics through their influential contributions to aircraft production and technology integration initiatives.

Prominent participants in the crew oxygen systems market comprise RTX Corporation, Safran, Parker-Meggitt (Parker Hannifin Corporation), Rostec, and Diehl Stiftung & Co. KG. These key market players demonstrate a commitment to innovation and research and development, investing significantly in the creation of lightweight and highly advanced oxygen systems. This ongoing emphasis on technological advancement underscores the substantial demand for dependable and cutting-edge oxygen systems to cater to the needs of the expanding global fleet.

This growth trend shows that key original equipment manufacturers (OEMs) are actively engaged in research and development endeavors aimed at producing state-of-the-art oxygen systems. An exemplary instance is the announcement made by Safran in June 2023, revealing exclusive negotiations with Air Liquide to acquire the aeronautical oxygen and nitrogen activities of Air Liquide Advanced Technologies. This strategic acquisition project aligns with Safran Aerosystems' objectives, particularly in enhancing its product range, specifically in the domain of onboard oxygen generation systems (OBOGS). Through this initiative, Safran aims to establish itself as a leading player in the market, leveraging its prowess in systems integration.

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