

# **Aircraft Piston Engine Market – Global Industry Size, Share, Trends, Opportunity, and Forecast, 2018-2030 Segmented By Number of Engines (Single Engine, and Multi Engine), By MTOW (Below 1000Kg, 1000-2000Kg, and Above 2000kg), and By Region**

<https://marketpublishers.com/r/A3131220A33CEN.html>

Date: May 2023

Pages: 118

Price: US\$ 4,900.00 (Single User License)

ID: A3131220A33CEN

## **Abstracts**

The global aircraft piston engine market has shown decent growth in the past few years, and it is anticipated to increase at a high rate in the forecast years 2023E-2030F. The aircraft piston engine has always been dominant in the market in terms of technological advancements; some of the segments in the aircraft piston engine that have gained some traction are airframes, cylinder coatings, and avionics. By introducing the first-ever single-engine private jet, Circus Aircraft, one of the top companies in the aircraft engine business, is replacing its piston-engine airplanes with jet aircraft. Since 2002, the SR22 has been the most popular aircraft. Over 30% of the market for piston aircraft is captured by SR22 models. 1,019 piston aircraft were shipped in total in 2016, of which 890 were single-engine aircraft and 129 were multi-engine aircraft. The emerging markets, where individuals would be able to fly piston engine aircraft due to better infrastructure, are anticipated to significantly boost piston aircraft sales. The aircraft need a proper infrastructure and area for their maintenance and to keep in a safe place when they are not in use. Europe & CIS, and North America have most of the individual users of aircraft which have their own private piston engine aircraft, due to which these two regions have the highest market share in the global aircraft piston engine market.

### **Declining Air Travel Costs**

The commercial air travel industry has seen growth due to a decrease in the cost of traveling, which has boosted passenger air traffic. With time, traveling has become easier for people as commercial aircraft-owning companies have reduced their prices to

make traveling an easy option for people. Because of this, demand for commercial aircraft in the market has increased, due to which the aircraft piston engine demand has also increased in many countries across the globe.

#### Availability of Different Types of Piston Engines in the Market

An aircraft with a piston engine, often known as a reciprocating engine, is one with an internal combustion (IC) engine that produces power using cylinders and pistons rather than turbines. The engine consists of one or more reciprocating pistons for converting pressure into rotational motion. Aircraft with piston engines are compact and have a thin front fuselage. They are frequently available in single-engine and multi-engine variations, are very dependable, strong, and need little upkeep and fuel. Additionally, there is less space between the cylinder and the piston in the airplane plane, which results in high compression and heat generation, improving total fuel economy. Piston engine aircraft are frequently used for defense, military, and commercial purposes.

#### Increased Involvement of Law Enforcement Agencies in Air Recreational Activities

Law enforcement organizations uphold strict regulation and safety standards for recreational aircraft use for operations and events, which seriously limits the capacity of manufacturers to release more 'adventurous' models. The Civil Aviation Safety Authority (CASA) announced the introduction of an Approved Organizations Model under part 149, which permits increased presence at events like air shows, as one of a number of policies that ensured greater involvement and oversight in air recreational sports activities in 2015. This would involve interfering with the RAAO, which puts pressure on the flexibility and freedom provided to recreational air enthusiasts. The recommendations also call for more RAAO surveillance, both planned and unplanned.

#### Regions With Higher Aircraft Piston Engine Market Opportunities

Regions with an established infrastructure for aircraft landing and higher levels of discretionary income, such as North America and the Middle East, are able to buy private planes for commuting and leisure, due to which demand for aircraft piston engines for commercial aircraft has increased in the market. One of the hubs for the private aviation sector, for instance, is New York City, which has numerous private aircraft departure ports. Additionally, Saudi Arabia and the United Arab Emirates (UAE) jointly control nearly 70% of the Middle East and North Africa private aircraft market, hence increasing the demand for aircraft piston engines. Additionally, in Saudi Arabia, agricultural airplanes are used for farming, due to which the demand for piston engine

aircraft has increased in the country, which is further driving the Saudi Arabia Aircraft Piston Engine Market.

## Market Segmentation

The Global Aircraft Piston Engine Market is segmented based on the number of engines, MTOW, region, and competition landscape. Based on the number of engines, the market is further fragmented into a single engine and multi engine. Based on MTOW, the market is divided into Below 1000Kg, 1000-2000Kg, and Above 2000kg.

## Company Profiles

Piper Aircraft, American Champion Aircraft, Tecnam Aircraft, Textron Inc., Cirrus Aircraft, Diamond Aircraft, Flight Design GmbH, Extra Aircraft, Costruzioni Aeronautiche Tecnam, Robinson Public Company Limited, are among the major market players in the global platform that lead the market growth of the Aircraft Piston Engine Market.

## Report Scope:

In this report, the Global Aircraft Piston Engine Market has been segmented into the following categories, in addition to the industry trends, which have also been detailed below:

### Aircraft Piston Engine Market, By Number of Engines:

Single Engine

Multi Engine

### Aircraft Piston Engine Market, By MTOW:

Below 1000kg

1000-2000Kg

Above 2000Kg

### Aircraft Piston Engine Market, By Region:

## North America

The United States

Canada

Mexico

## Europe & CIS

Germany

Spain

Russia

France

United Kingdom

Slovakia

Italy

## Asia-Pacific

China

India

Japan

South Korea

Indonesia

Thailand

Malaysia

Vietnam

South America

Brazil

Argentina

Colombia

Middle East & Africa

Saudi Arabia

Turkey

South Africa

Egypt

## Competitive Landscape

Company Profiles: Detailed analysis of the major companies present in the Global Aircraft Piston Engine Market.

## Available Customizations:

With the given market data, TechSci Research offers customizations according to a company's specific needs. The following customization options are available for the report:

## Company Information

Detailed analysis and profiling of additional market players (up to five).

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