

Piston Engine Aircraft Market: Global Industry Trends, Share, Size, Growth, Opportunity and Forecast 2023-2028

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Abstracts

The global piston engine aircraft market size reached US\$ 907 Million in 2022. Looking forward, IMARC Group expects the market to reach US\$ 1,170 Million by 2028, exhibiting a growth rate (CAGR) of 4.2% during 2023-2028.

Piston engine aircraft or reciprocating engine aircraft is an airplane that consists of an internal combustion (IC) engine that utilizes cylinders and pistons in place of turbines to generate power. The engine consists of a single or multiple reciprocating pistons for the conversion of pressure into rotational motion. Piston engine aircraft are small-sized and have a narrow front fuselage. They are commonly available in single-engine and multi-engine variants and are highly reliable, durable and require minimal maintenance and fuel requirements. The aircraft also have less gap between the cylinder and the piston, which creates high compression and heat, thereby enhancing the overall fuel efficiency. As a result, piston engine aircraft are widely used for defense, military and commercial applications.

Piston Engine Aircraft Market Trends:

Significant growth in the aviation industry across the globe is one of the key factors creating a positive outlook for the market. With the increasing air traffic, there is a rising demand for aircraft with high fuel efficiency, compression ratio and durability. Additionally, the rising demand for single-engine piston aircraft for hydro-seeding, trading, training and aerial application of pesticides or fertilizers is favouring the market growth. Moreover, various technological advancements, such as the utilization of self-organizing maps and monitoring systems in the aircraft to detect parameter deviations and visualize the trends in data obtained from the engines, are providing a thrust to the market growth. In line with this, the launch of aircraft engines with increased efficiency

and time between overhaul is positively impacting the market growth. Other factors, including the increasing expenditure capacities of the consumers, along with the implementation of various government initiatives to promote the construction of small airfields, are anticipated to drive the market toward growth.

Key Market Segmentation:

IMARC Group provides an analysis of the key trends in each sub-segment of the global piston engine aircraft market report, along with forecasts at the global, regional and country level from 2023-2028. Our report has categorized the market based on type, maximum take-off weight and application.

Breakup by Type:

- Single Engine
- Multi-Engine

Breakup by Maximum Take-off Weight:

- Less than 1000 Kg
- 1000-2000 Kg
- More than 2000 Kg

Breakup by Application:

- Military and Defense
- Commercial

Breakup by Region:

- North America
 - United States
 - Canada
- Asia-Pacific
 - China
 - Japan
 - India
 - South Korea
- Australia
- Indonesia

Others

Europe

Germany

France

United Kingdom

Italy

Spain

Russia

Others

Latin America

Brazil

Mexico

Others

Middle East and Africa

Competitive Landscape:

The competitive landscape of the industry has also been examined along with the profiles of the key players being American Champion Aircraft Corporation, Cirrus Aircraft (The Aviation Industry Corporation of China), Costruzioni Aeronautiche TECNAM S.p.A., CubCrafters Inc., Diamond Aircraft Industries (Wanfeng Aviation Industry Co. Ltd.), Discovery Aviation Inc., Garmin Ltd., ICON Aircraft Inc., Piper Aircraft Inc. and Textron Inc.

Key Questions Answered in This Report

1. What was the size of the global piston engine aircraft market in 2022?
2. What is the expected growth rate of the global piston engine aircraft market during 2023-2028?
3. What are the key factors driving the global piston engine aircraft market?
4. What has been the impact of COVID-19 on the global piston engine aircraft market?
5. What is the breakup of the global piston engine aircraft market based on the type?
6. What is the breakup of the global piston engine aircraft market based on the maximum take-off weight?
7. What is the breakup of the global piston engine aircraft market based on the application?
8. What are the key regions in the global piston engine aircraft market?
9. Who are the key players/companies in the global piston engine aircraft market?

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