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Autopilot Systems Market By Aircraft Type (Rotary Wing Aircraft, Fixed Wing Aircraft), By Application (Navigation and Flight Control, Automatic Takeoff and Landing, Altitude and Heading Control, Collision Avoidance Systems, Others), By End User (Commercial, Military, Civil): Global Opportunity Analysis and Industry Forecast, 2024-2033

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Abstracts

An aircraft autopilot system is a flight control system designed to assist pilots in operating an aircraft by automatically maintaining specific flight parameters such as heading, altitude, and speed. It functions by continuously adjusting functions, such as ailerons, elevators, and rudders, based on input from onboard sensors and pre-set flight instructions. In commercial and military aviation, autopilot systems are crucial for long-haul flights, reducing pilot fatigue and improving efficiency. Advanced autopilot systems, such as Category III Autoland Systems, can even execute fully automated landings in low-visibility conditions, ensuring safer and more precise landings.

The autopilots system market is driven by growth in air travel, increase in orders of new aircraft from developing countries, and rise in advancement in the electric and hybrid aircrafts. However, factors such as high development cost, and stringent regulatory compliance hinder the growth of the market to some extent. On the contrary, factors such as modernization of military aircrafts, and increase in sales of personal aircrafts offer lucrative market growth opportunities for the market.

The global autopilot system market is segmented into aircraft type, application, end user and region. On the basis of aircraft type, the global market is analyzed into rotary wing aircraft, and fixed wing aircraft. Based on application, the market is segmented into

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navigation & flight control, automatic takeoff & landing, altitude & heading control, collision avoidance systems, and others. On the basis of end user, the global market is segregated into commercial, military and civil. Region wise, the market is analyzed into North America, Europe, Asia-Pacific, and LAMEA.

The growing advancement in aviation technology, changing consumer preferences, and a growing demand for convenience has driven the sales of personal aircraft. The rising technological advancement on light jets, turboprops, and single-engine aircrafts has resulted in increased sales of personal aircrafts. Moreover, with the growing number of billionaires in Asia-Pacific and middle east region, the market is further expected to increase the personal aircraft sales.

According to a report published by Air Charter Association stated that the pre-owned private jet market experienced highest record in 2022. The growth is driven by the return of corporate clients after the COVID-19 pandemic and continued GDP growth in Asia-Pacific and Middle East markets. The company also stated that pre-owned business jets has seen strong growth in sales over the last two years due to increased demand and supply chain issues of major aircraft manufacturers. According to the report, the sales of private aircrafts will continue in 2025, owing to strong economic growth in developing countries. The growing sales of personal aircrafts will positively drive the autopilot system market in coming years.

Similarly, in recent years there has been growing advancement in the electric and hybrid aircrafts technology as they have lower operational costs, and improved fuel efficiency. Moreover, government and regulatory bodies are further promoting the use of electric and hybrid aircrafts. Aditionally, growing research, increasing financial investments, and industry collaborations is promoting continuous innovation, in electric and hybrid aviation industry. For instance, on October 2023, a substantial subsidy of about $205 million was allocated for the development of hydrogen fuel cell systems and related equipment. Such initiative aims to support the progress of components essential for electric aircraft.

Moreover, on June 2023, Airbus SE and STMicroelectronics signed an agreement for the development of technologies related to hybrid and electric aircrafts. The companies also announced that the collaboration will look after the advancement in research on the next generation of semiconductors, which will be extensively used in hybrid and fully electric aircraft such as the ZEROe demonstrator and CityAirbus NextGen.

Similarly, on June 2022, Honeywell International Inc. conducted successful tests on a

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one-megawatt generator tailored for hybrid electric aircraft. The generator is 280 pounds and gives 97% efficiency which is capable of powering an entire neighbourhood block. The new generator offers compact design, low weight, and increased fuel efficiency. Such developments are expected to further drive the growth of the market during the forecast period.

The key companies profiled in the report include Honeywell International Inc., Garmin Ltd, Collins Aerospace, Thales, Boeing, Airbus, Safran, BAE Systems, L3Harris Technologies, Inc., and Northrop Grumman.

Key Benefits For Stakeholders

This report provides a quantitative analysis of the market segments, current trends, estimations, and dynamics of the autopilot systems market analysis from 2023 to 2033 to identify the prevailing autopilot systems market opportunities.

The market research is offered along with information related to key drivers, restraints, and opportunities.

Porter's five forces analysis highlights the potency of buyers and suppliers to enable stakeholders make profit-oriented business decisions and strengthen their supplier-buyer network.

In-depth analysis of the autopilot systems market segmentation assists to determine the prevailing market opportunities.

Major countries in each region are mapped according to their revenue contribution to the global market.

Market player positioning facilitates benchmarking and provides a clear understanding of the present position of the market players.

The report includes the analysis of the regional as well as global autopilot systems market trends, key players, market segments, application areas, and market growth strategies.

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SWOT Analysis

Key Market Segments

By Aircraft Type

Rotary Wing Aircraft

Fixed Wing Aircraft

By Application

Navigation and Flight Control

Automatic Takeoff and Landing

Altitude and Heading Control

Collision Avoidance Systems

Others

By End User

Commercial

Military

Civil

By Region

North America

U.S.

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Boeing

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