Autonomous Aircraft Market is Booming Worldwide to Show Significant Growth Over the Forecast 2022 to 2031

Increase in the adoption of autonomous cargo aircraft, surge in autonomy to reduce human errors, rise in the adoption of artificial intelligence in drive growth

WILMINGTON, DE, UNITED STATES, July 29, 2025 /EINPresswire.com/ -- Autonomous aircraft market size generated $6.29 billion in 2021, and is estimated to reach $37.06 billion by 2031, witnessing a CAGR of 19.3% from 2022 to 2031.

The report offers a detailed analysis of changing market trends, top segments, key investment pockets, value chain, regional landscape, and competitive scenario. The report is a helpful source of information for leading market players, new entrants, investors, and stakeholders in devising strategies for the future and taking steps to strengthen their position in the market.

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The autonomous aircraft can be defined as an unmanned aircraft, which does not require pilot intervention in the management of the flight. The technology is similar to autonomous cars, which has the ability to fly independently. The autonomous aircraft eventually includes commercial flights, right now the innovations are being made with smaller drones and planes. Currently, both government-funded companies (military agencies) and private companies are working on creating the technology that will allow aircraft to fly autonomously while also having the capabilities to deal with sudden problems in the air. Keeping the aircraft and its passengers safe is the highest priority to these companies, and the capabilities to do so are expected to continue to advance. For instance, in India, in October 2021, the Ministry of Civil Aviation established the National Unmanned Aircraft System Traffic Management (UTM) Policy Framework, the architecture, and mechanism for traffic management of autonomous aircraft in

Very Low Level (VLL) airspace up to 1,000 feet above ground level.

In addition, the autonomous aircraft market has witnessed significant growth in recent years, owing to technological advancement, which is high in countries, such as the U.S., has led to the development of advanced autonomous aircraft, which can adapt to changing conditions as well as handle flying situations, without any human intervention. For instance, in October 2021, Xwing partnered with Textron Aviation, which manufactures aircrafts for commercial and military purposes to further develop its remote piloting technology for Textron's Cessna Grand Caravan utility aircraft. Both companies worked together to further develop and integrate autonomous flying technologies into Textron's aircrafts. Furthermore, the companies operating in the autonomous aircraft market have adopted partnerships, product developments, and business expansions to increase their market share and expand their geographical presence. For instance, in November 2021, Kittyhawk further developed its technology by successfully operating a remotely-piloted passenger air taxi. It was a beyond visual line-of-sight (BVLOS) flight and adopted many technologies such as Detect and Avoid (DAA), cameras, LIDAR and radar systems to help visually locate and avoid other aircraft. This laid down the path for further development in autonomous aircrafts.

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The report offers detailed segmentation of the global autonomous aircraft market based on aircraft size, maximum takeoff weight, application, end use and region. The report provides analysis of each segment and sub-segment with the help of tables and figures. This analysis helps market players, investors, and new entrants in determining the sub-segments to be tapped on to achieve growth in the coming years.

Based on region, North America accounted for the highest share in 2021, contributing to more than one-third of the global market. However, the market across LAMEA is projected to portray the fastest CAGR of 22.6% during the forecast period. The research also analyzes regions including Europe and Asia-Pacific.

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Leading players of the global autonomous aircraft market analyzed in the research include Northrop Grumman, Collins Aerospace, Lockheed Martin Corporation, Boeing, Airbus, Elbit Systems Ltd., Textron Inc., BAE Systems, SAAB, Aeronautics, Aerovironment, Inc., General Atomics., Embraer SA., Aston Martin and Kittyhawk.

The report analyzes these key players of the global autonomous aircraft industry. These players have adopted various strategies such as expansion, new product launches, partnerships, and others to increase their market penetration and strengthen their position in the industry. The

report is helpful in determining the business performance, operating segments, product portfolio, and developments by every market player.

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