

Fixed-wing VTOL UAV Market by Application (Military, Government & Law Enforcement, Commercial), Propulsion (Electric, Hybrid, Gasoline), Mode of operation (VLOS, EVLOS, BVLOS), Endurance, Range, MTOW and Region - Global Forecast to 2030

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Abstracts

The fixed-wing VTOL UAV market includes various players, such as product manufacturers and solution providers. The market is estimated at USD 842 million in 2022 and is projected to reach USD 4,627 million by 2030, at a CAGR of 23.7%. Continuous technological advancements have reduced the cost of materials & miniaturization of components used to develop new and advanced UAVs capable of repeatedly flying for long periods. These UAVs improve flight control systems using advanced software and have low operational costs. Fixed-wing VTOL UAVs are becoming highly efficient and effective and, hence, cater to various requirements of the civil & commercial, homeland, and military sectors. However, the lack of proper air traffic management for them acts as a significant challenge to the growth of the market across the globe.

“Based on application, the military segment is estimated to have the highest CAGR in the fixed-wing VTOL UAV market during the forecasted period.”

Based on application, the commercial segment is expected to lead the fixed-wing VTOL UAV market from 2022 to 2030. These UAVs are used extensively for commercial applications for inspection & surveying, 3D mapping, product delivery and agricultural activities.

“Based on Range, the beyond line of sight range segment is estimated to lead the fixed-wing VTOL UAV market in 2019.”

The beyond line of sight range segment is expected to lead the market for fixed-wing VTOL UAVs during the forecast period, driven by the increased use of these UAVs in the military and government & law enforcement applications.

“North America is estimated to lead the fixed-wing VTOL UAV market in 2022.”

The North American region is estimated to lead the fixed-wing VTOL UAV market in 2022. Growth in the North American fixed-wing VTOL UAV market can be attributed to the increasing adoption of these UAVs for commercial and defense applications. In recent years, manufacturers have been focusing on developing drones that are cost-effective, energy-efficient, lightweight, and capable of carrying large payloads over longer distances. Such UAVs are ideal for commercial applications such as last-mile delivery, including product, medicine, and postal delivery. The key countries considered for market analysis in this region are US and Canada.

Break-up of profiles of primary participants for this report:

By Company Type: Tier 1 – 55%, Tier 2 – 20%, and Tier 3 – 25%

By Designation: C Level – 75%, Manager Level – 25%

By Region: North America – 20%, Europe – 25%, Asia Pacific – 30%, Middle East – 10%, Latin America – 10%, and Africa – 5%

Key players operating in the fixed-wing VTOL UAV market include ALTI UAS (South Africa), Urkspecsystems (Ukraine), Aerovironment, Inc. (US), Vertical Technologies (Netherlands), Carbonix (Australia), Lockheed Martin (US), Textron Inc. (US), and Threod Systems (Estonia).

Research Coverage

This research study covers the segmentation of the fixed-wing VTOL UAV market on the basis of application (military, commercial, and government & law enforcement,), mode of operation (remotely piloted, optionally piloted, and fully autonomous), range [Visual Line of Sight (VLOS), Extended Visual Line of Sight (EVLOS), and Beyond Line of Sight (BLOS)], MTOW (170 kilograms), endurance (10 hours), and propulsion (electric, hybrid, gasoline). These segments and subsegments are mapped across

regions such as North America, Europe, Asia Pacific, the Middle East, Latin America and Africa.

The report provides in-depth market intelligence regarding key factors such as the drivers, opportunities, and industry-specific challenges influencing the growth of the fixed-wing VTOL UAV market. It also offers an analysis of micromarkets with respect to individual growth trends, prospects, and their contribution to the fixed-wing VTOL UAV market.

Reasons to buy the report:

The fixed-wing VTOL UAV market report focuses on various levels of analyses—industry analysis, market share analysis of top players, and company profiles, which together comprise and discuss basic views on the competitive landscape; high-growth regions and countries, and their respective regulatory policies; and drivers, restraints, opportunities, and challenges.

The fixed-wing VTOL UAV market report provides insights on the following pointers:

Market Penetration: Information regarding the competitive landscape of the fixed-wing VTOL UAV market

Market Sizing: The estimated market size in 2019 and projection of the market from 2019 to 2025

Product Development/Innovation: Detailed insights on upcoming technologies, research & development activities, and new product launches in the fixed-wing VTOL UAV market

Market Overview: Market dynamics and subsequent analysis of associated trends as well as drivers, restraints, opportunities, and challenges prevailing in the fixed-wing VTOL UAV market

Market Development: Comprehensive information about lucrative markets – the report analyzes the market for fixed-wing VTOL UAVs across various regions

Market Diversification: Exhaustive information about new products, untapped geographies, recent developments, and investments in the fixed-wing VTOL UAV market

Regional Analysis: Factors influencing the market share of North America, Europe, Asia Pacific, the Middle East, and Rest of the World

Competitive Assessment: In-depth assessment of strategies, products, and manufacturing capabilities of leading market players

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8 FIXED-WING VTOL UAV MARKET, BY ENDURANCE

8.1 INTRODUCTION

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