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Global Hybrid Powered Vertical Take-Off and Landing (VTOL) Fixed-wing UAVs Market 2025 by Manufacturers, Regions, Type and Application, Forecast to 2031

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Abstracts

According to our (Global Info Research) latest study, the global Hybrid Powered Vertical Take-Off and Landing (VTOL) Fixed-wing UAVs market size was valued at US$ 481 million in 2024 and is forecast to a readjusted size of USD 687 million by 2031 with a CAGR of 5.3% during review period.

In this report, we will assess the current U.S. tariff framework alongside international policy adaptations, analyzing their effects on competitive market structures, regional economic dynamics, and supply chain resilience.

A hybrid powered vertical take-off and landing (VTOL) fixed-wing UAV is an unmanned aircraft that combines the VTOL capabilities of a multi-rotor drone with the efficient cruise flight capabilities of a fixed-wing aircraft. The rotors generate vertical lift, enabling vertical take-off and landing without the need for a long runway. During flight, the fixed wings provide lift through the pressure difference between their upper and lower surfaces, allowing the UAV to cruise at higher speeds and achieve longer ranges. Additionally, this type of UAV employs a hybrid power system, further enhancing energy efficiency and endurance. Depending on the power source, it can be classified as oil-electric hybrid or hydrogen-electric hybrid.

This report is a detailed and comprehensive analysis for global Hybrid Powered Vertical Take-Off and Landing (VTOL) Fixed-wing UAVs market. Both quantitative and qualitative analyses are presented by manufacturers, by region & country, by Type and by Application. As the market is constantly changing, this report explores the

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competition, supply and demand trends, as well as key factors that contribute to its changing demands across many markets. Company profiles and product examples of selected competitors, along with market share estimates of some of the selected leaders for the year 2025, are provided.

Key Features:

Global Hybrid Powered Vertical Take-Off and Landing (VTOL) Fixed-wing UAVs market size and forecasts, in consumption value ($ Million), sales quantity (Units), and average selling prices (K US$/Unit), 2020-2031

Global Hybrid Powered Vertical Take-Off and Landing (VTOL) Fixed-wing UAVs market size and forecasts by region and country, in consumption value ($ Million), sales quantity (Units), and average selling prices (K US$/Unit), 2020-2031

Global Hybrid Powered Vertical Take-Off and Landing (VTOL) Fixed-wing UAVs market size and forecasts, by Type and by Application, in consumption value ($ Million), sales quantity (Units), and average selling prices (K US$/Unit), 2020-2031

Global Hybrid Powered Vertical Take-Off and Landing (VTOL) Fixed-wing UAVs market shares of main players, shipments in revenue ($ Million), sales quantity (Units), and ASP (K US$/Unit), 2020-2025

The Primary Objectives in This Report Are:

To determine the size of the total market opportunity of global and key countries
To assess the growth potential for Hybrid Powered Vertical Take-Off and Landing (VTOL) Fixed-wing UAVs
To forecast future growth in each product and end-use market
To assess competitive factors affecting the marketplace

This report profiles key players in the global Hybrid Powered Vertical Take-Off and Landing (VTOL) Fixed-wing UAVs market based on the following parameters - company overview, sales quantity, revenue, price, gross margin, product portfolio, geographical presence, and key developments. Key companies covered as a part of this study include JOUAV, Elevonx, SAGETOWN Technology, HONEYCOMB AEROSPACE, Yitong UAV System Co., Ltd., TECHX, Foxtech, CUAV Technology Co., Ltd., YANGDA, etc.

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This report also provides key insights about market drivers, restraints, opportunities, new product launches or approvals.

Market Segmentation

Hybrid Powered Vertical Take-Off and Landing (VTOL) Fixed-wing UAVs market is split by Type and by Application. For the period 2020-2031, the growth among segments provides accurate calculations and forecasts for consumption value by Type, and by Application in terms of volume and value. This analysis can help you expand your business by targeting qualified niche markets.

Market segment by Type

Fuel-electric Hybrid

Hydrogen-electric Hybrid

Market segment by Application

Monitoring and Inspection

Emergency Rescue

Logistics and Transportation

Agriculture, Forest and Plants Protection

Others

Major players covered

JOUAV

Elevonx

SAGETOWN Technology

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HONEYCOMB AEROSPACE

Yitong UAV System Co., Ltd.

TECHX

Foxtech

CUAV Technology Co., Ltd.

YANGDA

Market segment by region, regional analysis covers
North America (United States, Canada, and Mexico)
Europe (Germany, France, United Kingdom, Russia, Italy, and Rest of Europe)
Asia-Pacific (China, Japan, Korea, India, Southeast Asia, and Australia)
South America (Brazil, Argentina, Colombia, and Rest of South America)
Middle East & Africa (Saudi Arabia, UAE, Egypt, South Africa, and Rest of Middle East & Africa)

The content of the study subjects, includes a total of 15 chapters:

Chapter 1, to describe Hybrid Powered Vertical Take-Off and Landing (VTOL) Fixed-wing UAVs product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of Hybrid Powered Vertical Take-Off and Landing (VTOL) Fixed-wing UAVs, with price, sales quantity, revenue, and global market share of Hybrid Powered Vertical Take-Off and Landing (VTOL) Fixed-wing UAVs from 2020 to 2025.

Chapter 3, the Hybrid Powered Vertical Take-Off and Landing (VTOL) Fixed-wing UAVs competitive situation, sales quantity, revenue, and global market share of top manufacturers are analyzed emphatically by landscape contrast.

Chapter 4, the Hybrid Powered Vertical Take-Off and Landing (VTOL) Fixed-wing UAVs breakdown data are shown at the regional level, to show the sales quantity, consumption value, and growth by regions, from 2020 to 2031.

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Chapter 5 and 6, to segment the sales by Type and by Application, with sales market share and growth rate by Type, by Application, from 2020 to 2031.

Chapter 7, 8, 9, 10 and 11, to break the sales data at the country level, with sales quantity, consumption value, and market share for key countries in the world, from 2020 to 2025.and Hybrid Powered Vertical Take-Off and Landing (VTOL) Fixed-wing UAVs market forecast, by regions, by Type, and by Application, with sales and revenue, from 2026 to 2031.

Chapter 12, market dynamics, drivers, restraints, trends, and Porters Five Forces analysis.

Chapter 13, the key raw materials and key suppliers, and industry chain of Hybrid Powered Vertical Take-Off and Landing (VTOL) Fixed-wing UAVs.

Chapter 14 and 15, to describe Hybrid Powered Vertical Take-Off and Landing (VTOL) Fixed-wing UAVs sales channel, distributors, customers, research findings and conclusion.

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