

Global Fixed-wing UAV Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global Fixed-wing UAV market size is expected to reach \$ 6802 million by 2032, rising at a market growth of 5.2% CAGR during the forecast period (2026-2032).

A fixed-wing unmanned aerial vehicle (UAV) is an aircraft with rigid wings that relies on forward motion to generate aerodynamic lift, functioning similarly to a traditional airplane without a human pilot on board. Known for high efficiency, they offer long flight endurance, high speeds, and large area coverage, making them ideal for surveying, surveillance, and long-range inspections.

1. Hybrid and Electric Power Transformation

Electric-driven fixed-wing UAVs, due to environmental benefits, extended range, and cost advantages, have become the fastest-growing segment of the market

Hybrid systems combine fuel engines and electric propulsion systems to achieve longer range and higher performance

2. Vertical Take-Off and Landing (VTOL) Technology

VTOL fixed-wing UAVs combine the flexibility of multi-rotors with the long-endurance advantages of fixed-wing aircraft

3. Artificial Intelligence and Autonomous Flight

Deep integration of AI and machine learning with UAV technology, enhancing autonomous flight control, path planning, and mission execution capabilities

Automatic takeoff and landing, intelligent obstacle avoidance, and autonomous inspection functions have become emerging industry trends

4. Lightweight Materials and New Material Applications

Application of lightweight materials such as carbon fiber and composite materials, improving UAV performance and reducing energy consumption

Optimized wing design to improve lift-to-drag ratio for more efficient flight

5. Extended Range and Payload Enhancement

Battery life and payload capabilities continue to improve, expanding application scenarios

Hydrogen-powered UAVs commercialization has begun, providing new energy solutions for fixed-wing UAVs

This report studies the global Fixed-wing UAV production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for Fixed-wing UAV and provides market size (US\$ million) and Year-over-Year (YoY) Growth, considering 2025 as the base year. This report explores demand trends and competition, as well as details the characteristics of Fixed-wing UAV that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global Fixed-wing UAV total production and demand, 2021-2032, (Units)

Global Fixed-wing UAV total production value, 2021-2032, (USD Million)

Global Fixed-wing UAV production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (Units), (based on production site)

Global Fixed-wing UAV consumption by region & country, CAGR, 2021-2032 & (Units)

U.S. VS China: Fixed-wing UAV domestic production, consumption, key domestic manufacturers and share

Global Fixed-wing UAV production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (Units)

Global Fixed-wing UAV production by Type, production, value, CAGR, 2021-2032,

(USD Million) & (Units)

Global Fixed-wing UAV production by Application, production, value, CAGR,
2021-2032, (USD Million) & (Units)

This report profiles key players in the global Fixed-wing UAV market based on the following parameters - company overview, production, value, price, gross margin, product portfolio, geographical presence, and key developments. Key companies covered as a part of this study include AeroVironment?US?, Lockheed Martin?US?, Textron?US?, Applied Aeronautics?US?, Northrop Grumman?US?, General Atomics?US?, Airbus?DE?, IAI?IL?, Thales Group?FR?, AVIC (Chengdu) UAS?CN?, etc.

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

Stakeholders would have ease in decision-making through various strategy matrices used in analyzing the World Fixed-wing UAV market

Detailed Segmentation:

Each section contains quantitative market data including market by value (US\$ Millions), volume (production, consumption) & (Units) and average price (US\$/Unit) by manufacturer, by Type, and by Application. Data is given for the years 2021-2032 by year with 2025 as the base year, 2026 as the estimate year, and 2027-2032 as the forecast year.

Global Fixed-wing UAV Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Fixed-wing UAV Market, Segmentation by Type:

Large-size UAV

Medium-size UAV

Small-size UAV

Global Fixed-wing UAV Market, Segmentation by Application:

Safety Monitoring

Military

Land Survey

Other

Companies Profiled:

AeroVironment?US?

Lockheed Martin?US?

Textron?US?

Applied Aeronautics?US?

Northrop Grumman?US?

General Atomics?US?

Airbus?DE?

IAI?IL?

Thales Group?FR?

AVIC (Chengdu) UAS?CN?

Aerospace CH UAV?CN?

Xi'an Aisheng UAV Technology?CN?

Beijing Starneto Technology?CN?

CASC?CN?

Chengdu JOUAV Automation?CN?

Guandian Defense Technology?CN?

Beijing Beihang Tianyu Changying UAV Technology?CN?

Sichuan Tengden Technology?CN?

Key Questions Answered:

1. How big is the global Fixed-wing UAV market?
2. What is the demand of the global Fixed-wing UAV market?
3. What is the year over year growth of the global Fixed-wing UAV market?
4. What is the production and production value of the global Fixed-wing UAV market?
5. Who are the key producers in the global Fixed-wing UAV market?
6. What are the growth factors driving the market demand?

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