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Global Electric VTOL (eVTOL) Aircraft Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global Electric VTOL (eVTOL) Aircraft market size is expected to reach $ 40234 million by 2032, rising at a market growth of 169.6% CAGR during the forecast period (2026-2032).

The global production of electric vertical take-off and landing aircraft (eVTOL) will reach 211 units in 2025, with an average price of $313,000 per unit. Electric Vertical Takeoff and Landing (eVTOL) aircraft are a new type of aircraft that can carry a load of over 300 pounds (135 kilograms), do not require traditional helicopter flight control systems, and are powered by electricity, enabling vertical takeoff and landing. They combine the flight principles of drones with traditional aviation design concepts, featuring low noise, zero emissions, and high flexibility. They are highly maneuverable and efficient, and are suitable for applications in urban transportation, medical transportation, logistics delivery, tourism, and sightseeing.

The core features of eVTOLs include:

Electric power: They use batteries as the power source, significantly reducing carbon emissions, noise pollution, and maintenance costs compared to traditional fuel-powered methods.

Vertical takeoff and landing capability: They can take off and land without the need for traditional runways, making them suitable for air traffic operations in urban or complex terrain environments.

Multi-rotor, compound wing, or tilt-rotor design: Based on their flight principles, eVTOLs can be classified into three types: multi-rotor, compound wing, and tilt-rotor.

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Policy support promotes the commercialization process

The Chinese government attaches great importance to the development of the low-altitude economy and has introduced a series of supportive policies, aiming to promote the commercialization process of low-altitude manned aircraft.

The application scenarios are constantly expanding

The application scenarios of eVTOL are very extensive, including:

Urban air mobility (UAM) : As a future urban commuting tool, it alleviates the pressure on ground transportation.

Medical transportation: Providing rapid and efficient air medical assistance in emergency situations.

Logistics and distribution: Achieve efficient transportation for medium and short-distance logistics.

Tourism and sightseeing: Offering low-altitude tourism experiences.

Fire rescue: Provide rapid response in emergency situations such as fires and natural disasters.

Technological progress drives the development of industries

With the continuous improvement of battery technology, motor efficiency and artificial intelligence technology, the range, load capacity and safety of eVTOL have been significantly enhanced. For instance, advancements in battery technology have enabled eVTOL to achieve longer flight times, while improvements in motor efficiency have reduced energy consumption and operational costs.

Challenges and Risks

Although the eVTOL industry has a promising future, it also faces some challenges:

Airworthiness certification: Currently, the airworthiness certification for eVTOL is still in its early stages and requires more time and resources to complete.

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Infrastructure construction: The popularization of eVTOL requires supporting take-off and landing platforms, charging facilities and air traffic management systems.

Public acceptance: The public still has doubts about the safety and reliability of eVTOL, and trust needs to be enhanced through publicity and practical application.

Electric vertical take-off and landing aircraft (eVTOL), as a new type of air transportation vehicle, has broad application prospects and huge market potential. With the advancement of technology and the support of policies, the eVTOL industry is developing rapidly and is expected to experience a commercial explosion period in the coming years. However, the industry still needs to overcome challenges in areas such as airworthiness certification, infrastructure construction and public acceptance to achieve sustainable development.

This report studies the global Electric VTOL (eVTOL) Aircraft production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for Electric VTOL (eVTOL) Aircraft 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 Electric VTOL (eVTOL) Aircraft that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global Electric VTOL (eVTOL) Aircraft total production and demand, 2021-2032, (K Units)
Global Electric VTOL (eVTOL) Aircraft total production value, 2021-2032, (USD Million)
Global Electric VTOL (eVTOL) Aircraft production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (K Units), (based on production site)
Global Electric VTOL (eVTOL) Aircraft consumption by region & country, CAGR, 2021-2032 & (K Units)
U.S. VS China: Electric VTOL (eVTOL) Aircraft domestic production, consumption, key domestic manufacturers and share
Global Electric VTOL (eVTOL) Aircraft production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (K Units)
Global Electric VTOL (eVTOL) Aircraft production by Type, production, value, CAGR, 2021-2032, (USD Million) & (K Units)
Global Electric VTOL (eVTOL) Aircraft production by Application, production, value,

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CAGR, 2021-2032, (USD Million) & (K Units)

This report profiles key players in the global Electric VTOL (eVTOL) Aircraft 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 Ehang, Xiaopeng, AutoFlight, TCab Tech, AEROFUGIA, VERTAXI, Volant, ZEROG, Joby Aviation, AIR, 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 Electric VTOL (eVTOL) Aircraft market

Detailed Segmentation:

Each section contains quantitative market data including market by value (US$ Millions), volume (production, consumption) & (K 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 Electric VTOL (eVTOL) Aircraft Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

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Global Electric VTOL (eVTOL) Aircraft Market, Segmentation by Type:

All Electric

Hybrid

Global Electric VTOL (eVTOL) Aircraft Market, Segmentation by Principles of Flight:

Multi-rotor Type

Composite Airfoil

Tilting Rotor Type

Global Electric VTOL (eVTOL) Aircraft Market, Segmentation by User Requirement:

Manned

Unmanned

Global Electric VTOL (eVTOL) Aircraft Market, Segmentation by Application:

Air Tour

Medical Emergency Transportation

Logistics Transportation

Traffic Travel

Companies Profiled:

Ehang

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Xiaopeng

AutoFlight

TCab Tech

AEROFUGIA

VERTAXI

Volant

ZEROG

Joby Aviation

AIR

Volocopter

Wisk Aero

Archer Aviation

Vertical Aerospace

Beta Technologies

Key Questions Answered:

1. How big is the global Electric VTOL (eVTOL) Aircraft market?
2. What is the demand of the global Electric VTOL (eVTOL) Aircraft market?
3. What is the year over year growth of the global Electric VTOL (eVTOL) Aircraft market?
4. What is the production and production value of the global Electric VTOL (eVTOL) Aircraft market?
5. Who are the key producers in the global Electric VTOL (eVTOL) Aircraft market?
6. What are the growth factors driving the market demand?

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