

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

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Abstracts

The global Electric VTOL 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).

2025 Global electric vertical takeoff and landing (eVTOL) aircraft production reached 211 units, with an average price of \$313,000 per aircraft. Electric Vertical Takeoff and Landing (eVTOL) is a new type of aircraft that carries payloads exceeding 300 pounds/135 kilograms and does not require traditional helicopter flight control systems. It is powered by electricity and can take off and land vertically. Combining the flight principles of drones with traditional aviation design concepts, eVTOL aircraft feature low noise, zero emissions, and high flexibility, with high maneuverability and efficiency. They are suitable for various applications including urban transportation, medical logistics, delivery services, and tourism sightseeing.

Technology Development Trends

Battery Technology Breakthroughs: Solid-state battery mass production is a key turning point. Companies such as CATL and BYD plan to commence small-scale production in 2026 with energy density reaching 400Wh/kg, supporting flight range beyond 300 kilometers; by 2030, the second-generation all-solid-state batteries may achieve energy density of 500Wh/kg, fundamentally solving range issues.

Hydrogen Technology Application: Due to its high energy density (>600Wh/kg) and zero carbon emissions, hydrogen technology is being explored by Toyota, Honda, and other enterprises for long-range scenarios, with pilot applications expected in logistics and intercity transportation after 2030.

Diverse Configuration Development: eVTOL products include three configurations: multi-rotor, compound wing, and tilt-rotor. Among these, tilt-rotor aircraft offer high speed, superior payload ratio, and cost-effectiveness, making them the mainstream direction for future development.

Commercialization Roadmap

eVTOL commercialization will advance in three phases:

Phase 1: Replace helicopters, primarily for low-altitude tourism markets such as suburbs and scenic areas

Phase 2: Applied to short-haul transportation, such as travel from high-speed rail stations to tourist attractions and intercity transport

Phase 3: Serve everyone, achieving full coverage from city centers to various regional commuting

Infrastructure Construction Acceleration

China's first 'Technical Requirements for eVTOL Landing Sites' group standard was released in 2024, establishing standardized construction specifications. In 2025, 100 standardized landing sites will be built across 15 cities including Shenzhen and Guangzhou, equipped with 5G-A base stations and intelligent charging facilities. For energy supply, CATL's battery swapping system can be completed in less than 5 minutes, and a 'battery swapping station + hydrogen refueling station' hybrid network will be piloted in the Yangtze River Delta and Pearl River Delta in 2026, covering a radius of 50 kilometers.

Policy Support and Regulatory Progress

The US Federal Aviation Administration (FAA) will launch the eVTOL and AAM Integration Pilot Program (eIPP) in 2026 to promote practical application testing

In December 2024, the Central Air Traffic Management Commission will conduct eVTOL pilot programs in six cities: Hefei, Hangzhou, Shenzhen, Suzhou, Chengdu, and Chongqing

In 2023, Ehang EH216-S received the world's first unmanned passenger eVTOL type certification; in 2024, FEI Fei V2000CG obtained type certification for ton-level eVTOLs and production license

6. Global Competitive Landscape

Currently, over 80 companies have entered eVTOL aircraft development, including traditional aircraft manufacturers (Boeing, Airbus), automobile manufacturers (Hyundai, Volkswagen, Honda, Geely), and helicopter manufacturers (Eurocopter, AVIC, Leonardo). Chinese enterprises are accelerating breakthroughs in policy, technology, and commercialization, with the low-altitude economy market size expected to exceed 3.5 trillion RMB by 2035.

Challenges and Opportunities

Main Challenges: Safety and profitability, insufficient infrastructure, imperfect regulatory standards, market acceptance

Development Opportunities: Cultivation of emerging markets, value-added industry chain extension, cross-border integration and diversified development, policy support and reform dividends

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

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

Highlights and key features of the study

Global Electric VTOL Aircraft total production and demand, 2021-2032, (Unit)

Global Electric VTOL Aircraft total production value, 2021-2032, (USD Million)

Global Electric VTOL Aircraft production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (Unit), (based on production site)

Global Electric VTOL Aircraft consumption by region & country, CAGR, 2021-2032 & (Unit)

U.S. VS China: Electric VTOL Aircraft domestic production, consumption, key domestic

manufacturers and share

Global Electric VTOL Aircraft production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (Unit)

Global Electric VTOL Aircraft production by Type, production, value, CAGR, 2021-2032, (USD Million) & (Unit)

Global Electric VTOL Aircraft production by Application, production, value, CAGR, 2021-2032, (USD Million) & (Unit)

This report profiles key players in the global Electric VTOL 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?CN?, Xiaopeng?CN?, AutoFlight?CN?, TCab Tech?CN?, AEROFUGIA?CN?, VERTAXI?CN?, Volant?CN?, ZEROG?CN?, Joby Aviation?US?, AIR?US?, 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 Aircraft market

Detailed Segmentation:

Each section contains quantitative market data including market by value (US\$ Millions), volume (production, consumption) & (Unit) and average price (K 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 Aircraft Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Electric VTOL Aircraft Market, Segmentation by Type:

All-Electric

Hybrid-Electric

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

Multi-rotor Type

Compound Wing Type

Tilt-rotor Type

Global Electric VTOL Aircraft Market, Segmentation by User Requirement:

Manned

Unmanned

Global Electric VTOL Aircraft Market, Segmentation by Application:

Aerial Sightseeing

Medical Emergency Transportation

Logistics Transportation

Transportation for Daily Travel

Others

Companies Profiled:

Ehang?CN?

Xiaopeng?CN?

AutoFlight?CN?

TCab Tech?CN?

AEROFUGIA?CN?

VERTAXI?CN?

Volant?CN?

ZEROG?CN?

Joby Aviation?US?

AIR?US?

Volocopter?DE?

Wisk Aero?US?

Archer Aviation?US?

Vertical Aerospace?GB?

Beta Technologies?US?

Key Questions Answered:

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

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