

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.

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.

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,

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

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

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?

Contents

1 SUPPLY SUMMARY

- 1.1 Electric VTOL (eVTOL) Aircraft Introduction
- 1.2 World Electric VTOL (eVTOL) Aircraft Supply & Forecast
 - 1.2.1 World Electric VTOL (eVTOL) Aircraft Production Value (2021 & 2025 & 2032)
 - 1.2.2 World Electric VTOL (eVTOL) Aircraft Production (2021-2032)
 - 1.2.3 World Electric VTOL (eVTOL) Aircraft Pricing Trends (2021-2032)
- 1.3 World Electric VTOL (eVTOL) Aircraft Production by Region (Based on Production Site)
 - 1.3.1 World Electric VTOL (eVTOL) Aircraft Production Value by Region (2021-2032)
 - 1.3.2 World Electric VTOL (eVTOL) Aircraft Production by Region (2021-2032)
 - 1.3.3 World Electric VTOL (eVTOL) Aircraft Average Price by Region (2021-2032)
 - 1.3.4 North America Electric VTOL (eVTOL) Aircraft Production (2021-2032)
 - 1.3.5 Europe Electric VTOL (eVTOL) Aircraft Production (2021-2032)
 - 1.3.6 China Electric VTOL (eVTOL) Aircraft Production (2021-2032)
 - 1.3.7 Japan Electric VTOL (eVTOL) Aircraft Production (2021-2032)
- 1.4 Market Drivers, Restraints and Trends
 - 1.4.1 Electric VTOL (eVTOL) Aircraft Market Drivers
 - 1.4.2 Factors Affecting Demand
 - 1.4.3 Electric VTOL (eVTOL) Aircraft Major Market Trends

2 DEMAND SUMMARY

- 2.1 World Electric VTOL (eVTOL) Aircraft Demand (2021-2032)
- 2.2 World Electric VTOL (eVTOL) Aircraft Consumption by Region
 - 2.2.1 World Electric VTOL (eVTOL) Aircraft Consumption by Region (2021-2026)
 - 2.2.2 World Electric VTOL (eVTOL) Aircraft Consumption Forecast by Region (2027-2032)
- 2.3 United States Electric VTOL (eVTOL) Aircraft Consumption (2021-2032)
- 2.4 China Electric VTOL (eVTOL) Aircraft Consumption (2021-2032)
- 2.5 Europe Electric VTOL (eVTOL) Aircraft Consumption (2021-2032)
- 2.6 Japan Electric VTOL (eVTOL) Aircraft Consumption (2021-2032)
- 2.7 South Korea Electric VTOL (eVTOL) Aircraft Consumption (2021-2032)
- 2.8 ASEAN Electric VTOL (eVTOL) Aircraft Consumption (2021-2032)
- 2.9 India Electric VTOL (eVTOL) Aircraft Consumption (2021-2032)

3 WORLD MANUFACTURERS COMPETITIVE ANALYSIS

- 3.1 World Electric VTOL (eVTOL) Aircraft Production Value by Manufacturer (2021-2026)
- 3.2 World Electric VTOL (eVTOL) Aircraft Production by Manufacturer (2021-2026)
- 3.3 World Electric VTOL (eVTOL) Aircraft Average Price by Manufacturer (2021-2026)
- 3.4 Electric VTOL (eVTOL) Aircraft Company Evaluation Quadrant
- 3.5 Industry Rank and Concentration Rate (CR)
 - 3.5.1 Global Electric VTOL (eVTOL) Aircraft Industry Rank of Major Manufacturers
 - 3.5.2 Global Concentration Ratios (CR4) for Electric VTOL (eVTOL) Aircraft in 2025
 - 3.5.3 Global Concentration Ratios (CR8) for Electric VTOL (eVTOL) Aircraft in 2025
- 3.6 Electric VTOL (eVTOL) Aircraft Market: Overall Company Footprint Analysis
 - 3.6.1 Electric VTOL (eVTOL) Aircraft Market: Region Footprint
 - 3.6.2 Electric VTOL (eVTOL) Aircraft Market: Company Product Type Footprint
 - 3.6.3 Electric VTOL (eVTOL) Aircraft Market: Company Product Application Footprint
- 3.7 Competitive Environment
 - 3.7.1 Historical Structure of the Industry
 - 3.7.2 Barriers of Market Entry
 - 3.7.3 Factors of Competition
- 3.8 New Entrant and Capacity Expansion Plans
- 3.9 Mergers, Acquisition, Agreements, and Collaborations

4 UNITED STATES VS CHINA VS REST OF THE WORLD

- 4.1 United States VS China: Electric VTOL (eVTOL) Aircraft Production Value Comparison
 - 4.1.1 United States VS China: Electric VTOL (eVTOL) Aircraft Production Value Comparison (2021 & 2025 & 2032)
 - 4.1.2 United States VS China: Electric VTOL (eVTOL) Aircraft Production Value Market Share Comparison (2021 & 2025 & 2032)
- 4.2 United States VS China: Electric VTOL (eVTOL) Aircraft Production Comparison
 - 4.2.1 United States VS China: Electric VTOL (eVTOL) Aircraft Production Comparison (2021 & 2025 & 2032)
 - 4.2.2 United States VS China: Electric VTOL (eVTOL) Aircraft Production Market Share Comparison (2021 & 2025 & 2032)
- 4.3 United States VS China: Electric VTOL (eVTOL) Aircraft Consumption Comparison
 - 4.3.1 United States VS China: Electric VTOL (eVTOL) Aircraft Consumption Comparison (2021 & 2025 & 2032)
 - 4.3.2 United States VS China: Electric VTOL (eVTOL) Aircraft Consumption Market Share Comparison (2021 & 2025 & 2032)

4.4 United States Based Electric VTOL (eVTOL) Aircraft Manufacturers and Market Share, 2021-2026

4.4.1 United States Based Electric VTOL (eVTOL) Aircraft Manufacturers, Headquarters and Production Site (States, Country)

4.4.2 United States Based Manufacturers Electric VTOL (eVTOL) Aircraft Production Value (2021-2026)

4.4.3 United States Based Manufacturers Electric VTOL (eVTOL) Aircraft Production (2021-2026)

4.5 China Based Electric VTOL (eVTOL) Aircraft Manufacturers and Market Share

4.5.1 China Based Electric VTOL (eVTOL) Aircraft Manufacturers, Headquarters and Production Site (Province, Country)

4.5.2 China Based Manufacturers Electric VTOL (eVTOL) Aircraft Production Value (2021-2026)

4.5.3 China Based Manufacturers Electric VTOL (eVTOL) Aircraft Production (2021-2026)

4.6 Rest of World Based Electric VTOL (eVTOL) Aircraft Manufacturers and Market Share, 2021-2026

4.6.1 Rest of World Based Electric VTOL (eVTOL) Aircraft Manufacturers, Headquarters and Production Site (State, Country)

4.6.2 Rest of World Based Manufacturers Electric VTOL (eVTOL) Aircraft Production Value (2021-2026)

4.6.3 Rest of World Based Manufacturers Electric VTOL (eVTOL) Aircraft Production (2021-2026)

5 MARKET ANALYSIS BY TYPE

5.1 World Electric VTOL (eVTOL) Aircraft Market Size Overview by Type: 2021 VS 2025 VS 2032

5.2 Segment Introduction by Type

5.2.1 All Electric

5.2.2 Hybrid

5.3 Market Segment by Type

5.3.1 World Electric VTOL (eVTOL) Aircraft Production by Type (2021-2032)

5.3.2 World Electric VTOL (eVTOL) Aircraft Production Value by Type (2021-2032)

5.3.3 World Electric VTOL (eVTOL) Aircraft Average Price by Type (2021-2032)

6 MARKET ANALYSIS BY PRINCIPLES OF FLIGHT

6.1 World Electric VTOL (eVTOL) Aircraft Market Size Overview by Principles of Flight:

2021 VS 2025 VS 2032

6.2 Segment Introduction by Principles of Flight

6.2.1 Multi-rotor Type

6.2.2 Composite Airfoil

6.2.3 Tilting Rotor Type

6.3 Market Segment by Principles of Flight

6.3.1 World Electric VTOL (eVTOL) Aircraft Production by Principles of Flight (2021-2032)

6.3.2 World Electric VTOL (eVTOL) Aircraft Production Value by Principles of Flight (2021-2032)

6.3.3 World Electric VTOL (eVTOL) Aircraft Average Price by Principles of Flight (2021-2032)

7 MARKET ANALYSIS BY USER REQUIREMENT

7.1 World Electric VTOL (eVTOL) Aircraft Market Size Overview by User Requirement: 2021 VS 2025 VS 2032

7.2 Segment Introduction by User Requirement

7.2.1 Manned

7.2.2 Unmanned

7.3 Market Segment by User Requirement

7.3.1 World Electric VTOL (eVTOL) Aircraft Production by User Requirement (2021-2032)

7.3.2 World Electric VTOL (eVTOL) Aircraft Production Value by User Requirement (2021-2032)

7.3.3 World Electric VTOL (eVTOL) Aircraft Average Price by User Requirement (2021-2032)

8 MARKET ANALYSIS BY APPLICATION

8.1 World Electric VTOL (eVTOL) Aircraft Market Size Overview by Application: 2021 VS 2025 VS 2032

8.2 Segment Introduction by Application

8.2.1 Air Tour

8.2.2 Medical Emergency Transportation

8.2.3 Logistics Transportation

8.2.4 Traffic Travel

8.3 Market Segment by Application

8.3.1 World Electric VTOL (eVTOL) Aircraft Production by Application (2021-2032)

8.3.2 World Electric VTOL (eVTOL) Aircraft Production Value by Application (2021-2032)

8.3.3 World Electric VTOL (eVTOL) Aircraft Average Price by Application (2021-2032)

9 COMPANY PROFILES

9.1 Ehang

9.1.1 Ehang Details

9.1.2 Ehang Major Business

9.1.3 Ehang Electric VTOL (eVTOL) Aircraft Product and Services

9.1.4 Ehang Electric VTOL (eVTOL) Aircraft Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.1.5 Ehang Recent Developments/Updates

9.1.6 Ehang Competitive Strengths & Weaknesses

9.2 Xiaopeng

9.2.1 Xiaopeng Details

9.2.2 Xiaopeng Major Business

9.2.3 Xiaopeng Electric VTOL (eVTOL) Aircraft Product and Services

9.2.4 Xiaopeng Electric VTOL (eVTOL) Aircraft Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.2.5 Xiaopeng Recent Developments/Updates

9.2.6 Xiaopeng Competitive Strengths & Weaknesses

9.3 AutoFlight

9.3.1 AutoFlight Details

9.3.2 AutoFlight Major Business

9.3.3 AutoFlight Electric VTOL (eVTOL) Aircraft Product and Services

9.3.4 AutoFlight Electric VTOL (eVTOL) Aircraft Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.3.5 AutoFlight Recent Developments/Updates

9.3.6 AutoFlight Competitive Strengths & Weaknesses

9.4 TCab Tech

9.4.1 TCab Tech Details

9.4.2 TCab Tech Major Business

9.4.3 TCab Tech Electric VTOL (eVTOL) Aircraft Product and Services

9.4.4 TCab Tech Electric VTOL (eVTOL) Aircraft Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.4.5 TCab Tech Recent Developments/Updates

9.4.6 TCab Tech Competitive Strengths & Weaknesses

9.5 AEROFUGIA

- 9.5.1 AEROFUGIA Details
- 9.5.2 AEROFUGIA Major Business
- 9.5.3 AEROFUGIA Electric VTOL (eVTOL) Aircraft Product and Services
- 9.5.4 AEROFUGIA Electric VTOL (eVTOL) Aircraft Production, Price, Value, Gross Margin and Market Share (2021-2026)
- 9.5.5 AEROFUGIA Recent Developments/Updates
- 9.5.6 AEROFUGIA Competitive Strengths & Weaknesses
- 9.6 VERTAXI
 - 9.6.1 VERTAXI Details
 - 9.6.2 VERTAXI Major Business
 - 9.6.3 VERTAXI Electric VTOL (eVTOL) Aircraft Product and Services
 - 9.6.4 VERTAXI Electric VTOL (eVTOL) Aircraft Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 9.6.5 VERTAXI Recent Developments/Updates
 - 9.6.6 VERTAXI Competitive Strengths & Weaknesses
- 9.7 Volant
 - 9.7.1 Volant Details
 - 9.7.2 Volant Major Business
 - 9.7.3 Volant Electric VTOL (eVTOL) Aircraft Product and Services
 - 9.7.4 Volant Electric VTOL (eVTOL) Aircraft Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 9.7.5 Volant Recent Developments/Updates
 - 9.7.6 Volant Competitive Strengths & Weaknesses
- 9.8 ZEROG
 - 9.8.1 ZEROG Details
 - 9.8.2 ZEROG Major Business
 - 9.8.3 ZEROG Electric VTOL (eVTOL) Aircraft Product and Services
 - 9.8.4 ZEROG Electric VTOL (eVTOL) Aircraft Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 9.8.5 ZEROG Recent Developments/Updates
 - 9.8.6 ZEROG Competitive Strengths & Weaknesses
- 9.9 Joby Aviation
 - 9.9.1 Joby Aviation Details
 - 9.9.2 Joby Aviation Major Business
 - 9.9.3 Joby Aviation Electric VTOL (eVTOL) Aircraft Product and Services
 - 9.9.4 Joby Aviation Electric VTOL (eVTOL) Aircraft Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 9.9.5 Joby Aviation Recent Developments/Updates
 - 9.9.6 Joby Aviation Competitive Strengths & Weaknesses

9.10 AIR

9.10.1 AIR Details

9.10.2 AIR Major Business

9.10.3 AIR Electric VTOL (eVTOL) Aircraft Product and Services

9.10.4 AIR Electric VTOL (eVTOL) Aircraft Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.10.5 AIR Recent Developments/Updates

9.10.6 AIR Competitive Strengths & Weaknesses

9.11 Volocopter

9.11.1 Volocopter Details

9.11.2 Volocopter Major Business

9.11.3 Volocopter Electric VTOL (eVTOL) Aircraft Product and Services

9.11.4 Volocopter Electric VTOL (eVTOL) Aircraft Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.11.5 Volocopter Recent Developments/Updates

9.11.6 Volocopter Competitive Strengths & Weaknesses

9.12 Wisk Aero

9.12.1 Wisk Aero Details

9.12.2 Wisk Aero Major Business

9.12.3 Wisk Aero Electric VTOL (eVTOL) Aircraft Product and Services

9.12.4 Wisk Aero Electric VTOL (eVTOL) Aircraft Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.12.5 Wisk Aero Recent Developments/Updates

9.12.6 Wisk Aero Competitive Strengths & Weaknesses

9.13 Archer Aviation

9.13.1 Archer Aviation Details

9.13.2 Archer Aviation Major Business

9.13.3 Archer Aviation Electric VTOL (eVTOL) Aircraft Product and Services

9.13.4 Archer Aviation Electric VTOL (eVTOL) Aircraft Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.13.5 Archer Aviation Recent Developments/Updates

9.13.6 Archer Aviation Competitive Strengths & Weaknesses

9.14 Vertical Aerospace

9.14.1 Vertical Aerospace Details

9.14.2 Vertical Aerospace Major Business

9.14.3 Vertical Aerospace Electric VTOL (eVTOL) Aircraft Product and Services

9.14.4 Vertical Aerospace Electric VTOL (eVTOL) Aircraft Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.14.5 Vertical Aerospace Recent Developments/Updates

- 9.14.6 Vertical Aerospace Competitive Strengths & Weaknesses
- 9.15 Beta Technologies
 - 9.15.1 Beta Technologies Details
 - 9.15.2 Beta Technologies Major Business
 - 9.15.3 Beta Technologies Electric VTOL (eVTOL) Aircraft Product and Services
 - 9.15.4 Beta Technologies Electric VTOL (eVTOL) Aircraft Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 9.15.5 Beta Technologies Recent Developments/Updates
 - 9.15.6 Beta Technologies Competitive Strengths & Weaknesses

10 INDUSTRY CHAIN ANALYSIS

- 10.1 Electric VTOL (eVTOL) Aircraft Industry Chain
- 10.2 Electric VTOL (eVTOL) Aircraft Upstream Analysis
 - 10.2.1 Electric VTOL (eVTOL) Aircraft Core Raw Materials
 - 10.2.2 Main Manufacturers of Electric VTOL (eVTOL) Aircraft Core Raw Materials
- 10.3 Midstream Analysis
- 10.4 Downstream Analysis
- 10.5 Electric VTOL (eVTOL) Aircraft Production Mode
- 10.6 Electric VTOL (eVTOL) Aircraft Procurement Model
- 10.7 Electric VTOL (eVTOL) Aircraft Industry Sales Model and Sales Channels
 - 10.7.1 Electric VTOL (eVTOL) Aircraft Sales Model
 - 10.7.2 Electric VTOL (eVTOL) Aircraft Typical Distributors

11 RESEARCH FINDINGS AND CONCLUSION

12 APPENDIX

- 12.1 Methodology
- 12.2 Research Process and Data Source
- 12.3 Disclaimer

List Of Tables

LIST OF TABLES

Table 1. World Electric VTOL (eVTOL) Aircraft Production Value by Region (2021, 2025 and 2032) & (USD Million)

Table 2. World Electric VTOL (eVTOL) Aircraft Production Value by Region (2021-2026) & (USD Million)

Table 3. World Electric VTOL (eVTOL) Aircraft Production Value by Region (2027-2032) & (USD Million)

Table 4. World Electric VTOL (eVTOL) Aircraft Production Value Market Share by Region (2021-2026)

Table 5. World Electric VTOL (eVTOL) Aircraft Production Value Market Share by Region (2027-2032)

Table 6. World Electric VTOL (eVTOL) Aircraft Production by Region (2021-2026) & (K Units)

Table 7. World Electric VTOL (eVTOL) Aircraft Production by Region (2027-2032) & (K Units)

Table 8. World Electric VTOL (eVTOL) Aircraft Production Market Share by Region (2021-2026)

Table 9. World Electric VTOL (eVTOL) Aircraft Production Market Share by Region (2027-2032)

Table 10. World Electric VTOL (eVTOL) Aircraft Average Price by Region (2021-2026) & (US\$/Unit)

Table 11. World Electric VTOL (eVTOL) Aircraft Average Price by Region (2027-2032) & (US\$/Unit)

Table 12. Electric VTOL (eVTOL) Aircraft Major Market Trends

Table 13. World Electric VTOL (eVTOL) Aircraft Consumption Growth Rate Forecast by Region (2021 & 2025 & 2032) & (K Units)

Table 14. World Electric VTOL (eVTOL) Aircraft Consumption by Region (2021-2026) & (K Units)

Table 15. World Electric VTOL (eVTOL) Aircraft Consumption Forecast by Region (2027-2032) & (K Units)

Table 16. World Electric VTOL (eVTOL) Aircraft Production Value by Manufacturer (2021-2026) & (USD Million)

Table 17. Production Value Market Share of Key Electric VTOL (eVTOL) Aircraft Producers in 2025

Table 18. World Electric VTOL (eVTOL) Aircraft Production by Manufacturer (2021-2026) & (K Units)

Table 19. Production Market Share of Key Electric VTOL (eVTOL) Aircraft Producers in 2025

Table 20. World Electric VTOL (eVTOL) Aircraft Average Price by Manufacturer (2021-2026) & (US\$/Unit)

Table 21. Global Electric VTOL (eVTOL) Aircraft Company Evaluation Quadrant

Table 22. World Electric VTOL (eVTOL) Aircraft Industry Rank of Major Manufacturers, Based on Production Value in 2025

Table 23. Head Office and Electric VTOL (eVTOL) Aircraft Production Site of Key Manufacturer

Table 24. Electric VTOL (eVTOL) Aircraft Market: Company Product Type Footprint

Table 25. Electric VTOL (eVTOL) Aircraft Market: Company Product Application Footprint

Table 26. Electric VTOL (eVTOL) Aircraft Competitive Factors

Table 27. Electric VTOL (eVTOL) Aircraft New Entrant and Capacity Expansion Plans

Table 28. Electric VTOL (eVTOL) Aircraft Mergers & Acquisitions Activity

Table 29. United States VS China Electric VTOL (eVTOL) Aircraft Production Value Comparison, (2021 & 2025 & 2032) & (USD Million)

Table 30. United States VS China Electric VTOL (eVTOL) Aircraft Production Comparison, (2021 & 2025 & 2032) & (K Units)

Table 31. United States VS China Electric VTOL (eVTOL) Aircraft Consumption Comparison, (2021 & 2025 & 2032) & (K Units)

Table 32. United States Based Electric VTOL (eVTOL) Aircraft Manufacturers, Headquarters and Production Site (States, Country)

Table 33. United States Based Manufacturers Electric VTOL (eVTOL) Aircraft Production Value, (2021-2026) & (USD Million)

Table 34. United States Based Manufacturers Electric VTOL (eVTOL) Aircraft Production Value Market Share (2021-2026)

Table 35. United States Based Manufacturers Electric VTOL (eVTOL) Aircraft Production (2021-2026) & (K Units)

Table 36. United States Based Manufacturers Electric VTOL (eVTOL) Aircraft Production Market Share (2021-2026)

Table 37. China Based Electric VTOL (eVTOL) Aircraft Manufacturers, Headquarters and Production Site (Province, Country)

Table 38. China Based Manufacturers Electric VTOL (eVTOL) Aircraft Production Value, (2021-2026) & (USD Million)

Table 39. China Based Manufacturers Electric VTOL (eVTOL) Aircraft Production Value Market Share (2021-2026)

Table 40. China Based Manufacturers Electric VTOL (eVTOL) Aircraft Production, (2021-2026) & (K Units)

Table 41. China Based Manufacturers Electric VTOL (eVTOL) Aircraft Production Market Share (2021-2026)

Table 42. Rest of World Based Electric VTOL (eVTOL) Aircraft Manufacturers, Headquarters and Production Site (State, Country)

Table 43. Rest of World Based Manufacturers Electric VTOL (eVTOL) Aircraft Production Value, (2021-2026) & (USD Million)

Table 44. Rest of World Based Manufacturers Electric VTOL (eVTOL) Aircraft Production Value Market Share (2021-2026)

Table 45. Rest of World Based Manufacturers Electric VTOL (eVTOL) Aircraft Production, (2021-2026) & (K Units)

Table 46. Rest of World Based Manufacturers Electric VTOL (eVTOL) Aircraft Production Market Share (2021-2026)

Table 47. World Electric VTOL (eVTOL) Aircraft Production Value by Type, (USD Million), 2021 & 2025 & 2032

Table 48. World Electric VTOL (eVTOL) Aircraft Production by Type (2021-2026) & (K Units)

Table 49. World Electric VTOL (eVTOL) Aircraft Production by Type (2027-2032) & (K Units)

Table 50. World Electric VTOL (eVTOL) Aircraft Production Value by Type (2021-2026) & (USD Million)

Table 51. World Electric VTOL (eVTOL) Aircraft Production Value by Type (2027-2032) & (USD Million)

Table 52. World Electric VTOL (eVTOL) Aircraft Average Price by Type (2021-2026) & (US\$/Unit)

Table 53. World Electric VTOL (eVTOL) Aircraft Average Price by Type (2027-2032) & (US\$/Unit)

Table 54. World Electric VTOL (eVTOL) Aircraft Production Value by Principles of Flight, (USD Million), 2021 & 2025 & 2032

Table 55. World Electric VTOL (eVTOL) Aircraft Production by Principles of Flight (2021-2026) & (K Units)

Table 56. World Electric VTOL (eVTOL) Aircraft Production by Principles of Flight (2027-2032) & (K Units)

Table 57. World Electric VTOL (eVTOL) Aircraft Production Value by Principles of Flight (2021-2026) & (USD Million)

Table 58. World Electric VTOL (eVTOL) Aircraft Production Value by Principles of Flight (2027-2032) & (USD Million)

Table 59. World Electric VTOL (eVTOL) Aircraft Average Price by Principles of Flight (2021-2026) & (US\$/Unit)

Table 60. World Electric VTOL (eVTOL) Aircraft Average Price by Principles of Flight

(2027-2032) & (US\$/Unit)

Table 61. World Electric VTOL (eVTOL) Aircraft Production Value by User Requirement, (USD Million), 2021 & 2025 & 2032

Table 62. World Electric VTOL (eVTOL) Aircraft Production by User Requirement (2021-2026) & (K Units)

Table 63. World Electric VTOL (eVTOL) Aircraft Production by User Requirement (2027-2032) & (K Units)

Table 64. World Electric VTOL (eVTOL) Aircraft Production Value by User Requirement (2021-2026) & (USD Million)

Table 65. World Electric VTOL (eVTOL) Aircraft Production Value by User Requirement (2027-2032) & (USD Million)

Table 66. World Electric VTOL (eVTOL) Aircraft Average Price by User Requirement (2021-2026) & (US\$/Unit)

Table 67. World Electric VTOL (eVTOL) Aircraft Average Price by User Requirement (2027-2032) & (US\$/Unit)

Table 68. World Electric VTOL (eVTOL) Aircraft Production Value by Application, (USD Million), 2021 & 2025 & 2032

Table 69. World Electric VTOL (eVTOL) Aircraft Production by Application (2021-2026) & (K Units)

Table 70. World Electric VTOL (eVTOL) Aircraft Production by Application (2027-2032) & (K Units)

Table 71. World Electric VTOL (eVTOL) Aircraft Production Value by Application (2021-2026) & (USD Million)

Table 72. World Electric VTOL (eVTOL) Aircraft Production Value by Application (2027-2032) & (USD Million)

Table 73. World Electric VTOL (eVTOL) Aircraft Average Price by Application (2021-2026) & (US\$/Unit)

Table 74. World Electric VTOL (eVTOL) Aircraft Average Price by Application (2027-2032) & (US\$/Unit)

Table 75. Ehang Basic Information, Manufacturing Base and Competitors

Table 76. Ehang Major Business

Table 77. Ehang Electric VTOL (eVTOL) Aircraft Product and Services

Table 78. Ehang Electric VTOL (eVTOL) Aircraft Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 79. Ehang Recent Developments/Updates

Table 80. Ehang Competitive Strengths & Weaknesses

Table 81. Xiaopeng Basic Information, Manufacturing Base and Competitors

Table 82. Xiaopeng Major Business

Table 83. Xiaopeng Electric VTOL (eVTOL) Aircraft Product and Services

Table 84. Xiaopeng Electric VTOL (eVTOL) Aircraft Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 85. Xiaopeng Recent Developments/Updates

Table 86. Xiaopeng Competitive Strengths & Weaknesses

Table 87. AutoFlight Basic Information, Manufacturing Base and Competitors

Table 88. AutoFlight Major Business

Table 89. AutoFlight Electric VTOL (eVTOL) Aircraft Product and Services

Table 90. AutoFlight Electric VTOL (eVTOL) Aircraft Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 91. AutoFlight Recent Developments/Updates

Table 92. AutoFlight Competitive Strengths & Weaknesses

Table 93. TCab Tech Basic Information, Manufacturing Base and Competitors

Table 94. TCab Tech Major Business

Table 95. TCab Tech Electric VTOL (eVTOL) Aircraft Product and Services

Table 96. TCab Tech Electric VTOL (eVTOL) Aircraft Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 97. TCab Tech Recent Developments/Updates

Table 98. TCab Tech Competitive Strengths & Weaknesses

Table 99. AEROFUGIA Basic Information, Manufacturing Base and Competitors

Table 100. AEROFUGIA Major Business

Table 101. AEROFUGIA Electric VTOL (eVTOL) Aircraft Product and Services

Table 102. AEROFUGIA Electric VTOL (eVTOL) Aircraft Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 103. AEROFUGIA Recent Developments/Updates

Table 104. AEROFUGIA Competitive Strengths & Weaknesses

Table 105. VERTAXI Basic Information, Manufacturing Base and Competitors

Table 106. VERTAXI Major Business

Table 107. VERTAXI Electric VTOL (eVTOL) Aircraft Product and Services

Table 108. VERTAXI Electric VTOL (eVTOL) Aircraft Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 109. VERTAXI Recent Developments/Updates

Table 110. VERTAXI Competitive Strengths & Weaknesses

Table 111. Volant Basic Information, Manufacturing Base and Competitors

Table 112. Volant Major Business

- Table 113. Volant Electric VTOL (eVTOL) Aircraft Product and Services
- Table 114. Volant Electric VTOL (eVTOL) Aircraft Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
- Table 115. Volant Recent Developments/Updates
- Table 116. Volant Competitive Strengths & Weaknesses
- Table 117. ZEROG Basic Information, Manufacturing Base and Competitors
- Table 118. ZEROG Major Business
- Table 119. ZEROG Electric VTOL (eVTOL) Aircraft Product and Services
- Table 120. ZEROG Electric VTOL (eVTOL) Aircraft Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
- Table 121. ZEROG Recent Developments/Updates
- Table 122. ZEROG Competitive Strengths & Weaknesses
- Table 123. Joby Aviation Basic Information, Manufacturing Base and Competitors
- Table 124. Joby Aviation Major Business
- Table 125. Joby Aviation Electric VTOL (eVTOL) Aircraft Product and Services
- Table 126. Joby Aviation Electric VTOL (eVTOL) Aircraft Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
- Table 127. Joby Aviation Recent Developments/Updates
- Table 128. Joby Aviation Competitive Strengths & Weaknesses
- Table 129. AIR Basic Information, Manufacturing Base and Competitors
- Table 130. AIR Major Business
- Table 131. AIR Electric VTOL (eVTOL) Aircraft Product and Services
- Table 132. AIR Electric VTOL (eVTOL) Aircraft Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
- Table 133. AIR Recent Developments/Updates
- Table 134. AIR Competitive Strengths & Weaknesses
- Table 135. Volocopter Basic Information, Manufacturing Base and Competitors
- Table 136. Volocopter Major Business
- Table 137. Volocopter Electric VTOL (eVTOL) Aircraft Product and Services
- Table 138. Volocopter Electric VTOL (eVTOL) Aircraft Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
- Table 139. Volocopter Recent Developments/Updates
- Table 140. Volocopter Competitive Strengths & Weaknesses
- Table 141. Wisk Aero Basic Information, Manufacturing Base and Competitors
- Table 142. Wisk Aero Major Business

- Table 143. Wisk Aero Electric VTOL (eVTOL) Aircraft Product and Services
- Table 144. Wisk Aero Electric VTOL (eVTOL) Aircraft Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
- Table 145. Wisk Aero Recent Developments/Updates
- Table 146. Wisk Aero Competitive Strengths & Weaknesses
- Table 147. Archer Aviation Basic Information, Manufacturing Base and Competitors
- Table 148. Archer Aviation Major Business
- Table 149. Archer Aviation Electric VTOL (eVTOL) Aircraft Product and Services
- Table 150. Archer Aviation Electric VTOL (eVTOL) Aircraft Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
- Table 151. Archer Aviation Recent Developments/Updates
- Table 152. Archer Aviation Competitive Strengths & Weaknesses
- Table 153. Vertical Aerospace Basic Information, Manufacturing Base and Competitors
- Table 154. Vertical Aerospace Major Business
- Table 155. Vertical Aerospace Electric VTOL (eVTOL) Aircraft Product and Services
- Table 156. Vertical Aerospace Electric VTOL (eVTOL) Aircraft Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
- Table 157. Vertical Aerospace Recent Developments/Updates
- Table 158. Vertical Aerospace Competitive Strengths & Weaknesses
- Table 159. Beta Technologies Basic Information, Manufacturing Base and Competitors
- Table 160. Beta Technologies Major Business
- Table 161. Beta Technologies Electric VTOL (eVTOL) Aircraft Product and Services
- Table 162. Beta Technologies Electric VTOL (eVTOL) Aircraft Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
- Table 163. Beta Technologies Recent Developments/Updates
- Table 164. Beta Technologies Competitive Strengths & Weaknesses
- Table 165. Global Key Players of Electric VTOL (eVTOL) Aircraft Upstream (Raw Materials)
- Table 166. Global Electric VTOL (eVTOL) Aircraft Typical Customers
- Table 167. Electric VTOL (eVTOL) Aircraft Typical Distributors

List Of Figures

LIST OF FIGURES

Figure 1. Electric VTOL (eVTOL) Aircraft Picture

Figure 2. World Electric VTOL (eVTOL) Aircraft Production Value: 2021 & 2025 & 2032, (USD Million)

Figure 3. World Electric VTOL (eVTOL) Aircraft Production Value and Forecast (2021-2032) & (USD Million)

Figure 4. World Electric VTOL (eVTOL) Aircraft Production (2021-2032) & (K Units)

Figure 5. World Electric VTOL (eVTOL) Aircraft Average Price (2021-2032) & (US\$/Unit)

Figure 6. World Electric VTOL (eVTOL) Aircraft Production Value Market Share by Region (2021-2032)

Figure 7. World Electric VTOL (eVTOL) Aircraft Production Market Share by Region (2021-2032)

Figure 8. North America Electric VTOL (eVTOL) Aircraft Production (2021-2032) & (K Units)

Figure 9. Europe Electric VTOL (eVTOL) Aircraft Production (2021-2032) & (K Units)

Figure 10. China Electric VTOL (eVTOL) Aircraft Production (2021-2032) & (K Units)

Figure 11. Japan Electric VTOL (eVTOL) Aircraft Production (2021-2032) & (K Units)

Figure 12. Electric VTOL (eVTOL) Aircraft Market Drivers

Figure 13. Factors Affecting Demand

Figure 14. World Electric VTOL (eVTOL) Aircraft Consumption (2021-2032) & (K Units)

Figure 15. World Electric VTOL (eVTOL) Aircraft Consumption Market Share by Region (2021-2032)

Figure 16. United States Electric VTOL (eVTOL) Aircraft Consumption (2021-2032) & (K Units)

Figure 17. China Electric VTOL (eVTOL) Aircraft Consumption (2021-2032) & (K Units)

Figure 18. Europe Electric VTOL (eVTOL) Aircraft Consumption (2021-2032) & (K Units)

Figure 19. Japan Electric VTOL (eVTOL) Aircraft Consumption (2021-2032) & (K Units)

Figure 20. South Korea Electric VTOL (eVTOL) Aircraft Consumption (2021-2032) & (K Units)

Figure 21. ASEAN Electric VTOL (eVTOL) Aircraft Consumption (2021-2032) & (K Units)

Figure 22. India Electric VTOL (eVTOL) Aircraft Consumption (2021-2032) & (K Units)

Figure 23. Producer Shipments of Electric VTOL (eVTOL) Aircraft by Manufacturer Revenue (\$MM) and Market Share (%): 2025

Figure 24. Global Four-firm Concentration Ratios (CR4) for Electric VTOL (eVTOL) Aircraft Markets in 2025

Figure 25. Global Four-firm Concentration Ratios (CR8) for Electric VTOL (eVTOL) Aircraft Markets in 2025

Figure 26. United States VS China: Electric VTOL (eVTOL) Aircraft Production Value Market Share Comparison (2021 & 2025 & 2032)

Figure 27. United States VS China: Electric VTOL (eVTOL) Aircraft Production Market Share Comparison (2021 & 2025 & 2032)

Figure 28. United States VS China: Electric VTOL (eVTOL) Aircraft Consumption Market Share Comparison (2021 & 2025 & 2032)

Figure 29. United States Based Manufacturers Electric VTOL (eVTOL) Aircraft Production Market Share 2025

Figure 30. China Based Manufacturers Electric VTOL (eVTOL) Aircraft Production Market Share 2025

Figure 31. Rest of World Based Manufacturers Electric VTOL (eVTOL) Aircraft Production Market Share 2025

Figure 32. World Electric VTOL (eVTOL) Aircraft Production Value by Type, (USD Million), 2021 & 2025 & 2032

Figure 33. World Electric VTOL (eVTOL) Aircraft Production Value Market Share by Type in 2025

Figure 34. All Electric

Figure 35. Hybrid

Figure 36. World Electric VTOL (eVTOL) Aircraft Production Market Share by Type (2021-2032)

Figure 37. World Electric VTOL (eVTOL) Aircraft Production Value Market Share by Type (2021-2032)

Figure 38. World Electric VTOL (eVTOL) Aircraft Average Price by Type (2021-2032) & (US\$/Unit)

Figure 39. World Electric VTOL (eVTOL) Aircraft Production Value by Principles of Flight, (USD Million), 2021 & 2025 & 2032

Figure 40. World Electric VTOL (eVTOL) Aircraft Production Value Market Share by Principles of Flight in 2025

Figure 41. Multi-rotor Type

Figure 42. Composite Airfoil

Figure 43. Tilting Rotor Type

Figure 44. World Electric VTOL (eVTOL) Aircraft Production Market Share by Principles of Flight (2021-2032)

Figure 45. World Electric VTOL (eVTOL) Aircraft Production Value Market Share by Principles of Flight (2021-2032)

Figure 46. World Electric VTOL (eVTOL) Aircraft Average Price by Principles of Flight (2021-2032) & (US\$/Unit)

Figure 47. World Electric VTOL (eVTOL) Aircraft Production Value by User Requirement, (USD Million), 2021 & 2025 & 2032

Figure 48. World Electric VTOL (eVTOL) Aircraft Production Value Market Share by User Requirement in 2025

Figure 49. Manned

Figure 50. Unmanned

Figure 51. World Electric VTOL (eVTOL) Aircraft Production Market Share by User Requirement (2021-2032)

Figure 52. World Electric VTOL (eVTOL) Aircraft Production Value Market Share by User Requirement (2021-2032)

Figure 53. World Electric VTOL (eVTOL) Aircraft Average Price by User Requirement (2021-2032) & (US\$/Unit)

Figure 54. World Electric VTOL (eVTOL) Aircraft Production Value by Application, (USD Million), 2021 & 2025 & 2032

Figure 55. World Electric VTOL (eVTOL) Aircraft Production Value Market Share by Application in 2025

Figure 56. Air Tour

Figure 57. Medical Emergency Transportation

Figure 58. Logistics Transportation

Figure 59. Traffic Travel

Figure 60. World Electric VTOL (eVTOL) Aircraft Production Market Share by Application (2021-2032)

Figure 61. World Electric VTOL (eVTOL) Aircraft Production Value Market Share by Application (2021-2032)

Figure 62. World Electric VTOL (eVTOL) Aircraft Average Price by Application (2021-2032) & (US\$/Unit)

Figure 63. Electric VTOL (eVTOL) Aircraft Industry Chain

Figure 64. Electric VTOL (eVTOL) Aircraft Procurement Model

Figure 65. Electric VTOL (eVTOL) Aircraft Sales Model

Figure 66. Electric VTOL (eVTOL) Aircraft Sales Channels, Direct Sales, and Distribution

Figure 67. Methodology

Figure 68. Research Process and Data Source

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