

# Global Axial Flux Motor for eVTOL Supply, Demand and Key Producers, 2026-2032

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## Abstracts

The global Axial Flux Motor for eVTOL market size is expected to reach \$ 306 million by 2032, rising at a market growth of 10.3% CAGR during the forecast period (2026-2032).

Axial flux motors for eVTOL (Electronic Vertical Take-Off and Landing) are high-power-density electric propulsion motors with magnetic flux parallel to the shaft, typically employing a disc-type design. This structure offers extremely high torque density, compact size, and lightweight advantages, making it ideal for electric vertical take-off and landing (eVTOL) aircraft. These motors enable high-efficiency propulsion, improve flight efficiency, and enhance payload capacity, finding wide application in urban air mobility, air taxis, cargo drones, and advanced electric aircraft platforms. The eVTOL axial flux motor industry chain includes upstream high-performance permanent magnet materials, copper windings, silicon steel sheets, lightweight structural materials, and power electronic components. The midstream encompasses motor electromagnetic design, rotor and stator manufacturing, precision assembly, cooling system integration, and performance testing. Downstream applications primarily include eVTOL aircraft, urban air mobility platforms, air taxi fleets, cargo aircraft, and advanced aerospace electric propulsion systems. The industry chain also includes motor controllers, battery systems, aerospace power electronics, and electric propulsion system integration services to ensure flight safety and high-efficiency operation. In 2025, the global production of axial flux motors for eVTOL is approximately 8,056 units, with a global average market price of approximately US\$18,000 per unit. The gross profit margins of major companies in the industry range from 40% to 60%. In 2025, the global production capacity of axial flux motors for eVTOL is approximately 10,741 units.

The Axial Flux Motor for eVTOL market is emerging rapidly as urban air mobility and electric aviation technologies advance. Axial flux motors provide exceptional torque

density, lightweight structure, and high efficiency, which are essential for electric vertical takeoff and landing aircraft. Increasing investment in advanced air mobility platforms, air taxi services, and electric aviation research is driving demand for high-performance propulsion motors. Technological developments focus on thermal management, power density improvement, lightweight materials, and integrated electric propulsion systems. Manufacturers are working to meet strict aerospace safety standards while improving reliability and efficiency. As eVTOL aircraft move from prototype development toward commercial deployment, the demand for axial flux motors is expected to expand significantly, supporting the growth of electric aviation and next-generation urban air transportation systems.

This report studies the global Axial Flux Motor for eVTOL production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for Axial Flux Motor for eVTOL 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 Axial Flux Motor for eVTOL that contribute to its increasing demand across many markets.

### **Highlights and key features of the study**

Global Axial Flux Motor for eVTOL total production and demand, 2021-2032, (Units)

Global Axial Flux Motor for eVTOL total production value, 2021-2032, (USD Million)

Global Axial Flux Motor for eVTOL production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (Units), (based on production site)

Global Axial Flux Motor for eVTOL consumption by region & country, CAGR, 2021-2032 & (Units)

U.S. VS China: Axial Flux Motor for eVTOL domestic production, consumption, key domestic manufacturers and share

Global Axial Flux Motor for eVTOL production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (Units)

Global Axial Flux Motor for eVTOL production by Type, production, value, CAGR, 2021-2032, (USD Million) & (Units)

Global Axial Flux Motor for eVTOL production by Application, production, value, CAGR, 2021-2032, (USD Million) & (Units)

This report profiles key players in the global Axial Flux Motor for eVTOL 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 Emrax, Yasa, Magnax, Phi-Power, Siemens, AVID Technology, Lucchi R., EVO Electric, Koenigsegg, Saietta, 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 Axial Flux Motor for eVTOL 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 Axial Flux Motor for eVTOL Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Axial Flux Motor for eVTOL Market, Segmentation by Type:

Liquid-cooling

Air-cooling

Global Axial Flux Motor for eVTOL Market, Segmentation by Power Rating:

Medium-Power Axial Flux Motor (50?200 kW)

High-Power Axial Flux Motor (200?500 kW)

Ultra-High-Power Axial Flux Motor (>500 kW)

Global Axial Flux Motor for eVTOL Market, Segmentation by Propulsion Architecture:

Distributed Electric Propulsion Motor

Lift Rotor Motor

Cruise Propulsion Motor

Global Axial Flux Motor for eVTOL Market, Segmentation by Application:

Low Altitude Logistic

Air Taxi

Others

Companies Profiled:

Emrax

Yasa

Magnax

Phi-Power

Siemens

AVID Technology

Lucchi R.

EVO Electric

Koenigsegg

Saietta

Traxial

ZONHOW

Evolito LTD

Turntide

Brogen

### **Key Questions Answered:**

1. How big is the global Axial Flux Motor for eVTOL market?
2. What is the demand of the global Axial Flux Motor for eVTOL market?
3. What is the year over year growth of the global Axial Flux Motor for eVTOL market?
4. What is the production and production value of the global Axial Flux Motor for eVTOL market?
5. Who are the key producers in the global Axial Flux Motor for eVTOL market?
6. What are the growth factors driving the market demand?

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