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Global Axial Flux Electric Motor Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global Axial Flux Electric Motor market size is expected to reach $ 28859 million by 2032, rising at a market growth of 56.6% CAGR during the forecast period (2026-2032).

An axial flux motor (also known as an axial gap motor, or pancake motor) is a geometry of electric motor construction where the gap between the rotor and stator, and therefore the direction of magnetic flux between the two, is aligned parallel with the axis of rotation, rather than radially as with the concentric cylindrical geometry of the more common radial flux motor.

In 2025, global Axial Flux Electric Motors production reached approximately 7.46 k units, with an average global market price of around US$ 9.86 k per unit.

The upstream supply chain of axial flux electric motors mainly consists of conductive materials, ferromagnetic materials, and advanced soft magnetic composite materials. Copper is widely used in windings due to its excellent electrical conductivity, while iron-based materials are essential for magnetic circuits and structural components. Soft magnetic composite materials play a critical role in improving magnetic performance and reducing core losses, especially in high-speed and high-efficiency designs. Major raw material suppliers include Vale and Rio Tinto for iron-related materials, as well as Hoganas AB and Sumitomo for soft magnetic composite materials, which are key enablers of advanced axial flux motor architectures.

Axial flux electric motors are primarily deployed in high-end electric mobility, aerospace and urban air mobility, high-performance automotive systems, and other advanced industrial applications. Their high torque density and compact form factor make them ideal for integration into electric drivetrains, in-wheel motors, and distributed propulsion

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systems. Representative customers include Mercedes-Benz Group and Ferrari in the premium automotive segment, as well as Volocopter in the electric vertical take-off and landing aircraft sector, where lightweight and high-efficiency propulsion solutions are critical.

Due to high technical barriers, advanced material requirements, and strong customization attributes, axial flux electric motors generally achieve relatively high gross margins compared with conventional motor products. Gross margin levels typically range from 30% to 60%, depending on application complexity, production scale, degree of vertical integration, and the proportion of high-value engineering services included in the product offering.

Within the axial flux motor segment, the Dual-Rotor Single-Stator configuration holds a substantial market share, estimated at around 87%. This design offers enhanced torque density and efficiency, making it suitable for high-performance applications. The Single-Rotor Dual-Stator configuration, while less prevalent, provides unique advantages in specific use cases, such as applications requiring high-speed operation and compact design.

Market Drivers

Several factors are propelling the growth of the axial flux motor market:

Advancements in Electric Vehicle Technology: The shift towards electric mobility necessitates the development of efficient and compact motor solutions, positioning axial flux motors as a favorable choice.

Environmental Regulations: Stringent emissions standards and environmental policies, particularly in Europe, are encouraging the adoption of technologies that contribute to sustainability, such as axial flux motors.

Consumer Demand for High-Performance Vehicles: The increasing consumer preference for high-performance electric vehicles drives automakers to explore innovative motor technologies, including axial flux designs.

Technological Advancements: Continuous research and development efforts are enhancing the performance, efficiency, and manufacturability of axial flux motors, expanding their applicability across various industries.

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Market Barriers

Despite their advantages, the adoption of axial flux motors faces certain challenges:

High Development and Manufacturing Costs: The specialized materials and precision engineering required for axial flux motors can result in higher production costs compared to traditional radial flux motors.

Design and Production Complexity: The unique design of axial flux motors necessitates advanced manufacturing techniques and poses challenges in maintaining uniform air gaps and effective cooling.

Limited Production Capacity: Scaling up production to meet the growing demand for axial flux motors requires significant investment in manufacturing infrastructure and expertise.

Competition from Established Technologies: Radial flux motors and other conventional motor technologies have well-established supply chains and customer bases, presenting competition for the emerging axial flux motor market.

Conclusion

The axial flux electric motor represents a transformative advancement in motor technology, offering significant benefits in terms of size, weight, and efficiency. While challenges related to cost, manufacturing complexity, and competition exist, ongoing technological developments and increasing demand for sustainable and high-performance solutions are likely to drive the continued growth and adoption of axial flux motors across various industries. Europe's leadership in this market underscores the region's commitment to innovation and sustainability in the transition towards electric mobility.

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

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

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Highlights and key features of the study

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

This report profiles key players in the global Axial Flux Electric Motor 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 YASA, PanGood, Omni Powertrain Technologies, Naxatra Labs, Phi-Power, Turntide Technologies, Magnax, EMRAX, Evolito, EFLOW, 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 Electric Motor market

Detailed Segmentation:

Each section contains quantitative market data including market by value (US$ Millions), volume (production, consumption) & (Units) 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 Axial Flux Electric Motor Market, By Region:

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United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Axial Flux Electric Motor Market, Segmentation by Type:

Dual-rotor Single-stator Type

Single-rotor Dual-stator Type

Global Axial Flux Electric Motor Market, Segmentation by Voltage Level:

Low-voltage Axial Flux Motor

Medium-voltage Axial Flux Motor

High-voltage Axial Flux Motor

Global Axial Flux Electric Motor Market, Segmentation Cooling Method:

Air-cooled Axial Flux Motor

Liquid-cooled Axial Flux Motor

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Oil-cooled Axial Flux Motor

Global Axial Flux Electric Motor Market, Segmentation by Application:

Electric Buses

Electric Trucks

Electric Supercars

Other

Companies Profiled:

YASA

PanGood

Omni Powertrain Technologies

Naxatra Labs

Phi-Power

Turntide Technologies

Magnax

EMRAX

Evolito

EFLOW

SEMOTOR

Wolong

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Beyond Motors (BM)

Yikun Power

Miba

Key Questions Answered:

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

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