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Global Axial Flux Motor for Drones Market 2026 by Manufacturers, Regions, Type and Application, Forecast to 2032

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Abstracts

According to our (Global Info Research) latest study, the global Axial Flux Motor for Drones market size was valued at US$ 216 million in 2025 and is forecast to a readjusted size of US$ 392 million by 2032 with a CAGR of 8.5% during review period.

Axial flux motors for drones are high-efficiency motors designed with an axial flux structure, where the flux direction is parallel to the shaft, typically in a disc-like configuration. Compared to traditional radial flux motors, this structure offers higher torque density, a more compact size, and higher power efficiency. These motors are widely used in drone propulsion systems, suitable for aerial photography, logistics delivery, agricultural monitoring, and industrial inspection, where high power-to-weight ratio and efficiency are required. The drone axial flux motor industry chain includes upstream permanent magnet materials, copper wire windings, silicon steel sheets, bearings, and electronic components. The midstream includes motor design, electromagnetic simulation, rotor and stator manufacturing, complete assembly, and performance testing. Downstream applications primarily include consumer drones, industrial inspection drones, agricultural drones, logistics delivery drones, and surveying and monitoring platforms. The industry chain also includes motor controllers, battery systems, and drone power system integration services to ensure flight efficiency and reliability. In 2025, the global production of drone axial flux motors was approximately 656,250 units, with a global average market price of approximately US$320 per unit. The gross profit margin of major companies in the industry ranges from 35% to 55%. In 2025, the global production capacity of axial flux motors for drones is estimated at 875,000 units.

The market for axial flux motors for drones is growing rapidly due to the expansion of

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commercial and industrial drone applications. These motors offer high torque density, lightweight structure, and high efficiency, which are critical for improving flight endurance and payload capacity. Increasing demand for agricultural drones, aerial inspection platforms, and logistics delivery UAVs is driving market growth. Technological advancements in permanent magnet materials, motor control algorithms, and lightweight structural design are further improving motor performance. Manufacturers are focusing on optimizing efficiency, thermal management, and reliability to meet the requirements of professional UAV platforms. As drone technology continues to evolve and commercial adoption expands worldwide, demand for high-performance axial flux motors is expected to grow significantly in the coming years.

This report is a detailed and comprehensive analysis for global Axial Flux Motor for Drones market. Both quantitative and qualitative analyses are presented by manufacturers, by region & country, by Type and by Application. As the market is constantly changing, this report explores the competition, supply and demand trends, as well as key factors that contribute to its changing demands across many markets. Company profiles and product examples of selected competitors, along with market share estimates of some of the selected leaders for the year 2025, are provided.

Key Features:

Global Axial Flux Motor for Drones market size and forecasts, in consumption value ($ Million), sales quantity (K Units), and average selling prices (US$/Unit), 2021-2032

Global Axial Flux Motor for Drones market size and forecasts by region and country, in consumption value ($ Million), sales quantity (K Units), and average selling prices (US$/Unit), 2021-2032

Global Axial Flux Motor for Drones market size and forecasts, by Type and by Application, in consumption value ($ Million), sales quantity (K Units), and average selling prices (US$/Unit), 2021-2032

Global Axial Flux Motor for Drones market shares of main players, shipments in revenue ($ Million), sales quantity (K Units), and ASP (US$/Unit), 2021-2026

The Primary Objectives in This Report Are:

To determine the size of the total market opportunity of global and key countries

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To assess the growth potential for Axial Flux Motor for Drones

To forecast future growth in each product and end-use market

To assess competitive factors affecting the marketplace

This report profiles key players in the global Axial Flux Motor for Drones market based on the following parameters - company overview, sales quantity, revenue, price, gross margin, product portfolio, geographical presence, and key developments. Key companies covered as a part of this study include Faststream Technologies, Yasa, Emrax d.o.o., Magnax BV, Evolito Ltd., AxialTech, Maxveer Automation Co., Ltd., etc.

This report also provides key insights about market drivers, restraints, opportunities, new product launches or approvals.

Market Segmentation

Axial Flux Motor for Drones market is split by Type and by Application. For the period 2021-2032, the growth among segments provides accurate calculations and forecasts for consumption value by Type, and by Application in terms of volume and value. This analysis can help you expand your business by targeting qualified niche markets.

Market segment by Type

Yoke Axial Flux Motor

Yokeless Axial Flux Motor

Market segment by Cooling Method

Air-Cooled Axial Flux Motor

Liquid-Cooled Axial Flux Motor

Oil-Cooled Axial Flux Motor

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Market segment by Power Level

- Low Power Axial Flux Motor
- Medium Power Axial Flux Motor
- High Power Axial Flux Motor

Market segment by Application

- Fixed Wing Drone
- Rotor Drone

Major players covered

- Faststream Technologies
- Yasa
- Emrax d.o.o.
- Magnax BV
- Evolito Ltd.
- AxialTech
- Maxveer Automation Co., Ltd.

Market segment by region, regional analysis covers

- North America (United States, Canada, and Mexico)
- Europe (Germany, France, United Kingdom, Russia, Italy, and Rest of Europe)

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Asia-Pacific (China, Japan, Korea, India, Southeast Asia, and Australia)

South America (Brazil, Argentina, Colombia, and Rest of South America)

Middle East & Africa (Saudi Arabia, UAE, Egypt, South Africa, and Rest of Middle East & Africa)

The content of the study subjects, includes a total of 15 chapters:

Chapter 1, to describe Axial Flux Motor for Drones product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of Axial Flux Motor for Drones, with price, sales quantity, revenue, and global market share of Axial Flux Motor for Drones from 2021 to 2026.

Chapter 3, the Axial Flux Motor for Drones competitive situation, sales quantity, revenue, and global market share of top manufacturers are analyzed emphatically by landscape contrast.

Chapter 4, the Axial Flux Motor for Drones breakdown data are shown at the regional level, to show the sales quantity, consumption value, and growth by regions, from 2021 to 2032.

Chapter 5 and 6, to segment the sales by Type and by Application, with sales market share and growth rate by Type, by Application, from 2021 to 2032.

Chapter 7, 8, 9, 10 and 11, to break the sales data at the country level, with sales quantity, consumption value, and market share for key countries in the world, from 2021 to 2026.and Axial Flux Motor for Drones market forecast, by regions, by Type, and by Application, with sales and revenue, from 2027 to 2032.

Chapter 12, market dynamics, drivers, restraints, trends, and Porters Five Forces analysis.

Chapter 13, the key raw materials and key suppliers, and industry chain of Axial Flux Motor for Drones.

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Chapter 14 and 15, to describe Axial Flux Motor for Drones sales channel, distributors, customers, research findings and conclusion.

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