

Drone Motor Market Expanding With \$6.7 Billion at 14.1% CAGR by 2029

The Business Research Company's Drone Motor Global Market Report 2025 – Market Size, Trends, And Global Forecast 2025-2034

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The logo for The Business Research Company, featuring the company name in a serif font and a stylized bar chart with three bars of increasing height to the right. Below the logo is the text "Drone Motor Global Market Report 2025".

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Drone Motor Global Market Report 2025

What Is The Forecast For The Drone Motor Market From 2024 To 2029?

Recent years have seen a swift expansion in the drone motor market size. This market is

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projected to increase from \$3.45 billion in 2024 to \$3.95 billion in 2025, reflecting a compound annual growth rate (CAGR) of 14.5%. Factors such as a surge in the requirement for aerial surveillance, wider acceptance of drone technology, increased commercial usages, rising sales of leisure drones, and a larger role in intelligent farming have all contributed to this historic growth.

It is anticipated that the drone motor market will experience significant growth in the forthcoming years, reaching a market size of \$6.70 billion in 2029 with a

compound annual growth rate (CAGR) of 14.2%. Various factors driving this predicted growth during the forecast period include the rising acceptance of electric propulsion systems, expanding demand for eco-friendly aviation alternatives, a heightened focus on minimising carbon emissions, and increased investment in the development of electric aircraft.

Furthermore, concerns related to aircraft noise pollution are also playing a role in the market's expansion. Key trends to look out for during the forecast period are improvements in battery efficacy, the incorporation of artificial intelligence (AI) for motor management, progression in lightweight motor materials, and advancements in high-torque motor designs and lightweight drone materials.

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What Are The Core Growth Drivers Shaping The Future Of The Drone Motor Market?

The drone motor market is predicted to thrive due to the escalating need for aerial surveillance. This entails the utilization of aircraft, drones, or other airborne devices to collect data, observe, or supervise a particular region or activity from above. The swell in demand for this kind of surveillance arises from the growing necessity for instantaneous data acquisition in areas like defense and border security, as it allows for swift detection of threats and data-informed decisions. Drone motors play an integral role in aerial surveillance by providing prolonged endurance and steady flight performance, facilitating data collection over extensive regions. Furthermore, these motors boost operational efficiency by enabling high-altitude, long-duration tracking with limited human involvement. For instance, Airservices Australia, a federal government-owned entity, stated in February 2024 that drone flights in Australia are expected to jump from 1.5 million in 2023 to 60.4 million by 2043. As such, the flourishing demand for aerial surveillance is a key factor propelling the drone motor market's growth. The drone motor market is also projected to gain momentum owing to the uptrend in defense budgets. This budgeting refers to the sum of government expenditure set aside for military-related activities, operations, personnel, and equipment to maintain national security. A rise in geopolitical tensions leads to increased defense budgets as countries seek to bolster their military capabilities for strategic security and deterrence. High defense budgets promote the use of drone motors by facilitating their research and development, large-scale deployment, and procurement. They also foster innovation and produce economies of scale in drone technology. For example, the Stockholm International Peace Research Institute (SIPRI), a Swedish research organization, reported in April 2023 that in 2022, Russian military spending surged by 9.2% to roughly \$86.4 billion, representing 4.1% of the nation's GDP, up from 3.7% in 2021. Consequently, the augmented defense budgets are further driving the growth of the drone motor market.

Which Companies Are Currently Leading In The Drone Motor Market?

Major players in the Drone Motor Global Market Report 2025 include:

- Nidec Corporation
- Maxon Motor
- Yuneec International Co. Ltd.
- Shenzhen GC Electronics Co. Ltd.
- Parrot SA
- T-Motor Co. Ltd.
- Mechtex
- Drona Aviation Private Limited
- Hobbymate Hobby
- KDE Direct LLC

What Are The Top Trends In The [Drone Motor Industry](#)?

Leading corporations in the drone motor market are focusing on the development of advanced

products, such as dual motor mounting solutions, in order to improve functionality, minimise vibration, and increase the stability and efficiency of flight. The use of dual motor mounting solutions involves two motors functioning in harmony on a drone arm, boosting thrust, stability, and reliability, particularly in demanding or high-risk operations. For example, in December 2024, the India-based drone technology firm, Indian Robotics Solution Pvt. Ltd., introduced the IRS Alpha Dual Motor Mount Series. This product features a robust but lightweight aluminium construction that provides stable motor support. It allows compatible use with dual or single motors, offering flexibility for a range of drone designs and subsequently improving flight performance and efficiency. It is specifically designed for 16 mm carbon fiber tubes, facilitating easy integration and favouring modular drone builds.

Comparative Analysis Of Leading [Drone Motor Market Segments](#)

The drone motor market covered in this report is segmented –

- 1) By Motor Type: Brushless Motor, Brushed Motor, Other Motor Types
- 2) By Drone Type: Fixed Wing, Rotary Wing, Hybrid
- 3) By Power Capacity: Below 50 Watt, 51 To 100 Watt, Above 100 Watt
- 4) By Application: Agriculture, Construction, Military, Entertainment, Other Applications
- 5) By End-User: Aerospace And Defense, Consumer Electronics, Industrial, Retail

Subsegments:

- 1) By Brushless Motor: Outrunner Brushless Motors, Inrunner Brushless Motors, Single-Rotor Brushless Motors, Dual-Rotor Brushless Motors
- 2) By Brushed Motor: Coreless Brushed Motors, Iron Core Brushed Motors, Cylindrical Brushed Motors, Pancake Brushed Motors
- 3) By Other Motor Types: Servo Motors, Stepper Motors, Linear Motors, Hybrid Motors

View the full drone motor market report:

<https://www.thebusinessresearchcompany.com/report/drone-motor-global-market-report>

Which Regions Are Dominating The Drone Motor Market Landscape?

In the Drone Motor Global Market Report 2025, North America was identified as the biggest drone motor market region in 2024. However, the Asia-Pacific region is anticipated to experience the most rapid growth in the coming years. The report encompasses an analysis of several regions, namely, Asia-Pacific, Western Europe, Eastern Europe, North America, South America, Middle East, and Africa.

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