

Global Motor Controller for eVTOL Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global Motor Controller for eVTOL market size is expected to reach \$ 152 million by 2032, rising at a market growth of 17.1% CAGR during the forecast period (2026-2032).

The eVTOL motor controller is the core power and control unit in an electric propulsion system. It converts high voltage DC into three phase AC and drives rotor or fan motors with closed loop torque and speed control, while delivering fast transient response and protection functions during takeoff, landing, and transition regimes. To balance high power density with airworthiness grade reliability, mainstream products adopt high voltage buses and high efficiency architectures, spanning medium voltage to 800 V class systems. For example, Evolito's motor controller units operate around 400 to 835 V and highlight peak efficiency above 98 percent together with dielectric oil cooling, while Embention's MC110 covers roughly 65 to 800 V, targets continuous 110 kW operation for eVTOL, supports both sensed and sensorless motor control, and uses liquid cooling. To meet distributed electric propulsion requirements for segregation and fault tolerance, some solutions emphasize redundant control and onboard diagnostics. MGM COMPRO describes multi processor controller designs that can support multi winding motors and redundancy concepts using multiple controllers, and it also offers air, fluid, hybrid, and custom cooling options to match aircraft thermal constraints. Another pathway is deeper integration, delivering the inverter together with the motor or the full propulsion unit. ZeroAvia presents single and dual silicon carbide inverters and stresses segregation and fault tolerance for high altitude and unpressurized environments, and Safran's ENGINEUS smart electric motor platform likewise positions itself as a system level electric propulsion approach. Overall, value in this category is determined jointly by efficiency and power density, cooling and thermal management, software and hardware assurance standards, and interface and maintainability, with delivery forms evolving from standalone controllers to integrated motor inverter drives

and further toward complete EPU level solutions serving eVTOL OEMs, propulsion integrators, and test and certification organizations.

The industrialization of eVTOL motor controllers is converging on a clear product pattern. High voltage DC bus architectures are increasingly paired with a single platform that integrates power inversion and motor control, and the overall design is positioned around aviation grade reliability. Public information on supplier websites indicates that mainstream solutions now span medium voltage through 800 V class operation and treat efficiency and power density as headline differentiators, often publishing core parameters such as size, mass, current capability, and switching frequency to support early stage trade studies on electrical architecture and thermal design. As eVTOL programs move into engineering and certification phases, the controller is no longer a simple power delivery component. It becomes a primary enabler of thrust dynamics and protection behavior, especially during takeoff, landing, and transition, where stability must be maintained and risks must be isolated quickly under abnormal conditions. This is why high efficiency topologies, thermal management, and sensor strategy are becoming tightly coupled design choices that define competitive advantage.

From an airworthiness and safety perspective, differentiation is increasingly expressed through evidence and certifiability. Some eVTOL oriented products explicitly reference assurance standards such as DO 178C and DO 254 on their websites, signaling that suppliers are aligning software and complex electronic hardware development processes with certification expectations early, reducing late cycle rework. At the same time, distributed electric propulsion drives controller level evolution toward redundancy and diagnostics. Examples include multi processor designs that strengthen algorithm execution and fault detection, multi controller combinations that support multi winding motors and segregated redundant propulsion architectures, and communication plus data logging features that enable traceable operational feedback. Overall, competition is shifting from isolated performance metrics to system safety and engineering delivery capability. Suppliers that clearly communicate control capability, cooling approach, redundancy concepts, and interface ecosystem on product pages are more likely to earn validation effort from OEMs and propulsion integrators.

Commercially and structurally, the category is seeing two trends at once.

Platformization expands standalone controller and inverter product lines across voltage and power bands, with multiple cooling configurations from air cooling to liquid cooling and hybrid approaches so aircraft can match their thermal boundaries and mission profiles. Integration, in parallel, is pushing toward deeper motor inverter co design and even EPU level delivery, reducing interfaces and harness volume to improve integration

efficiency and shorten engineering cycles. Silicon carbide inverter roadmaps increasingly emphasize reliability and fault segregation for high altitude and unpressurized environments. As UAM demonstrations progress in North America and Europe and supply chains mature across Asia Pacific, suppliers with high voltage platform compatibility, coherent safety and redundancy logic, and scalable manufacturing readiness are well positioned to enter more eVTOL programs over the next two to three years and grow international sales exposure.

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

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

Highlights and key features of the study

Global Motor Controller for eVTOL total production and demand, 2021-2032, (M Units)

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

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

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

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

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

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

Global Motor Controller for eVTOL production by Application, production, value, CAGR,

2021-2032, (USD Million) & (M Units)

This report profiles key players in the global Motor Controller 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 Embention, Nidec Motor Corporation, Safran, Shenzhen V&T Technologies, Mitsubishi, Yaskawa, Delta Electronics, Edrive, TECO Electro Devices, Inovance, 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 Motor Controller for eVTOL market

Detailed Segmentation:

Each section contains quantitative market data including market by value (US\$ Millions), volume (production, consumption) & (M 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 Motor Controller for eVTOL Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Motor Controller for eVTOL Market, Segmentation by Type:

Servo Motor Controller

Stepper Motor Controller

Global Motor Controller for eVTOL Market, Segmentation by System Integration Form:

Standalone Motor Controller

Integrated Motor-Inverter Drive

Global Motor Controller for eVTOL Market, Segmentation by Cooling Method:

Air Cooling

Liquid Cooling

Global Motor Controller for eVTOL Market, Segmentation by Application:

Freight Logistics

Air Browsing

Emergency Medical Assistance

Transport

Others

Companies Profiled:

Embention

Nidec Motor Corporation

Safran

Shenzhen V&T Technologies

Mitsubishi

Yaskawa

Delta Electronics

Edrive

TECO Electro Devices

Inovance

Key Questions Answered:

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

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