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Global Electric Airplane Propulsion Systems Supply, Demand and Key Producers, 2026-2032

https://marketpublishers.com/r/GDD445E41EB4EN.html
Date: February 2026
Pages: 149
Price: US$ 4,480.00 (Single User License)
ID: GDD445E41EB4EN

Abstracts

The global Electric Airplane Propulsion Systems market size is expected to reach $ 159 million by 2032, rising at a market growth of 18.2% CAGR during the forecast period (2026-2032).
An electric airplane propulsion system is a power system that uses electricity as its core power source. It converts electrical energy into mechanical energy through an electric motor, which drives propellers, ducted fans, or rotors to generate thrust/lift, enabling the aircraft to fly. The core of the system consists of an energy storage/conversion unit, a power electronic controller, an electric motor, a propulsion unit, an energy management system, and supporting electrical components.
The global production of electric airplane propulsion systems is projected to reach 520 units by 2025, with an average price of US$93,800 per unit.
Upstream of electric airplane propulsion systems mainly includes high-power motors and drives, power semiconductors and control ICs, high-energy-density batteries and battery management systems, composite structural materials, thermal management and insulation materials, and high-reliability electrical interconnects, all requiring exceptional power density, low weight, safety redundancy, and consistency. Downstream represents the core of demand and value, serving eVTOL manufacturers, light and regional aircraft OEMs, general aviation and urban air mobility operators, research and flight-test organizations, and some defense and special-mission users. Downstream customers focus on system safety and certification feasibility, thrust-to-weight ratio and efficiency, redundancy and fault tolerance, range and mission fit, maintenance and total lifecycle cost, and deep integration with airframe aerodynamics and avionics, with procurement largely project-based and involving co-development, leading to long decision cycles and high technical barriers.
Industry trends show strong movement toward highly integrated and modular propulsion systems, higher power density and efficiency, and enhanced safety redundancy,

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alongside parallel development of distributed electric propulsion and hybrid-electric architectures, supported by digital control for health monitoring and predictive maintenance. Key drivers include pressure to reduce aviation emissions and noise, the rise of urban air mobility and eVTOL concepts, electrification efforts in light aviation, and advances in motors and power electronics. Major constraints include limitations in battery energy density and range, stringent and complex airworthiness certification processes, high R&D and testing costs, and the immaturity of large-scale commercialization and supporting infrastructure.

Overall gross margins for electric airplane propulsion systems are relatively mid-to-high, typically ranging from 30% to 50%. Companies with core motor and power electronics technologies, system-level safety design capabilities, airworthiness certification experience, and involvement in joint development with aircraft OEMs achieve higher margins, while suppliers focused on single components or lower-barrier offerings face more limited profitability.

This report studies the global Electric Airplane Propulsion Systems production, demand, key manufacturers, and key regions.

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

Highlights and key features of the study

Global Electric Airplane Propulsion Systems total production and demand, 2021-2032, (Units)

Global Electric Airplane Propulsion Systems total production value, 2021-2032, (USD Million)

Global Electric Airplane Propulsion Systems production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (Units), (based on production site)

Global Electric Airplane Propulsion Systems consumption by region & country, CAGR, 2021-2032 & (Units)

U.S. VS China: Electric Airplane Propulsion Systems domestic production, consumption, key domestic manufacturers and share

Global Electric Airplane Propulsion Systems production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (Units)

Global Electric Airplane Propulsion Systems production by Type, production, value, CAGR, 2021-2032, (USD Million) & (Units)

Global Electric Airplane Propulsion Systems production by Application, production, value, CAGR, 2021-2032, (USD Million) & (Units)

This report profiles key players in the global Electric Airplane Propulsion Systems

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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 Safran, magniX, H55, Pipistrel, Evolito, H3X, EMRAX, MGM COMPRO, Geiger Engineering, ZeroAvia, 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 Electric Airplane Propulsion Systems 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 Electric Airplane Propulsion Systems Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Electric Airplane Propulsion Systems Market, Segmentation by Type:

Pure Electric Propulsion System

Hybrid Propulsion System

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Global Electric Airplane Propulsion Systems Market, Segmentation by Propulsion Configuration:

Centralized Propulsion System

Distributed Electric Propulsion (DEP) System

Push-Pull and Ducted Propulsion Systems

Global Electric Airplane Propulsion Systems Market, Segmentation by Power:

Below 100 kW

100?500 kW

Above 500 kW

Global Electric Airplane Propulsion Systems Market, Segmentation by Motor Type:

Permanent Magnet Synchronous Motor (PMSM)

Brushless DC Motor (BLDC)

Global Electric Airplane Propulsion Systems Market, Segmentation by Application:

Urban Air Mobility (UAM)

Drones and Freight

Military

Other

Companies Profiled:

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Safran

magniX

H55

Pipistrel

Evolito

H3X

EMRAX

MGM COMPRO

Geiger Engineering

ZeroAvia

Moog

Honeywell Aerospace Technologies

RTX (Collins Aerospace)

GKN Aerospace

Turbotech

GE Aerospace

Parker Hannifin

Key Questions Answered:

1. How big is the global Electric Airplane Propulsion Systems market?
2. What is the demand of the global Electric Airplane Propulsion Systems market?
3. What is the year over year growth of the global Electric Airplane Propulsion Systems

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market?
4. What is the production and production value of the global Electric Airplane Propulsion Systems market?
5. Who are the key producers in the global Electric Airplane Propulsion Systems market?
6. What are the growth factors driving the market demand?

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