

Global Electric Ducted Fan Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global Electric Ducted Fan market size is expected to reach \$ 14217 million by 2032, rising at a market growth of 10.5% CAGR during the forecast period (2026-2032).

An Electric Ducted Fan (EDF) is an electrically driven propulsion system consisting of a high-speed fan (impeller) enclosed within a cylindrical duct. The duct improves airflow efficiency, increases thrust, and reduces noise. EDFs are commonly used in drones, model aircraft, and some electric vertical take-off and landing (eVTOL) aircraft as a compact and efficient electric propulsion solution. In 2025, global EDF production reached approximately 3.7 M units, with an average global market price of around US\$ 1,850 per unit. Annual production capacity is 4.5 M units. Gross Profit Margin: 38%. The EDF (Electric Ducted Fan) industry chain is composed of upstream precision components, midstream propulsion system integration, and downstream application platforms. Upstream includes high-performance materials such as carbon fiber duct structures, rare-earth magnets, silicon steel cores, and semiconductor-based ESCs (electronic speed controllers). Midstream manufacturers assemble EDF units by integrating brushless motors, fan blades, ducts, and control electronics, with key players specializing either in standalone EDF units or fully integrated propulsion modules. Downstream demand comes from model aviation, industrial UAVs, defense drones, and emerging eVTOL platforms, where EDF serves as a core electric propulsion solution. EDF is transitioning from a hobby-grade component market into a structured aerospace propulsion subsystem market. The value is shifting upstream toward high-efficiency motors, power electronics, and integrated propulsion design rather than simple fan assemblies. In my view, the most important long-term driver is not RC demand but the convergence of UAV logistics, defense electrification, and eVTOL commercialization, which will gradually push EDF systems toward higher voltage, higher thrust density, and deeper system integration.

This report studies the global Electric Ducted Fan production, demand, key manufacturers, and key regions.

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

Highlights and key features of the study

Global Electric Ducted Fan total production and demand, 2021-2032, (K Units)

Global Electric Ducted Fan total production value, 2021-2032, (USD Million)

Global Electric Ducted Fan production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (K Units), (based on production site)

Global Electric Ducted Fan consumption by region & country, CAGR, 2021-2032 & (K Units)

U.S. VS China: Electric Ducted Fan domestic production, consumption, key domestic manufacturers and share

Global Electric Ducted Fan production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (K Units)

Global Electric Ducted Fan production by Thrust Class, production, value, CAGR, 2021-2032, (USD Million) & (K Units)

Global Electric Ducted Fan production by Application, production, value, CAGR, 2021-2032, (USD Million) & (K Units)

This report profiles key players in the global Electric Ducted Fan 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 Sch?beler, Stumax, T-Motor, Hacker Motor, Scorpion, Jetfan, WeMoTec, TP Power, Freewing, FMS Model, 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 Ducted Fan market

Detailed Segmentation:

Each section contains quantitative market data including market by value (US\$ Millions), volume (production, consumption) & (K Units) and average price (US\$/Unit) by manufacturer, by Thrust Class, 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 Ducted Fan Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Electric Ducted Fan Market, Segmentation by Thrust Class:

Micro Thrust?

Low Thrust?1?5 kgf

Medium Thrust?5?20 kgf

High Thrust?> 20 kgf

Global Electric Ducted Fan Market, Segmentation by Power Class:

Light Duty EDF (50 kW)

Global Electric Ducted Fan Market, Segmentation by Diameter Class:

Micro Class EDF (120 mm Rotor Diameter)

Global Electric Ducted Fan Market, Segmentation by Application:

Consumer

Industrial

Commercial

Defense & Security

Others

Companies Profiled:

Sch?beler

Stumax

T-Motor

Hacker Motor

Scorpion

Jetfan

WeMoTec

TP Power

Freewing

FMS Model

Xoar

Shenzhen KST

Mencius

AVID Aerospace

HET-RC

Dynam

Arrows Hobby

E-flite

Lilium

EHang

Key Questions Answered:

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

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