

# **Global Electric Ducted Fan 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 Electric Ducted Fan market size was valued at US\$ 7034 million in 2025 and is forecast to a readjusted size of US\$ 14217 million by 2032 with a CAGR of 10.5% during review period.

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 is a detailed and comprehensive analysis for global Electric Ducted Fan market. Both quantitative and qualitative analyses are presented by manufacturers, by region & country, by Thrust Class 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 Electric Ducted Fan market size and forecasts, in consumption value (\$ Million), sales quantity (K Units), and average selling prices (US\$/Unit), 2021-2032

Global Electric Ducted Fan 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 Electric Ducted Fan market size and forecasts, by Thrust Class and by Application, in consumption value (\$ Million), sales quantity (K Units), and average selling prices (US\$/Unit), 2021-2032

Global Electric Ducted Fan 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

To assess the growth potential for Electric Ducted Fan

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 Electric Ducted Fan 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 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.

## Market Segmentation

Electric Ducted Fan market is split by Thrust Class and by Application. For the period 2021-2032, the growth among segments provides accurate calculations and forecasts for consumption value by Thrust Class, 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 Thrust Class

Micro Thrust?

Low Thrust?1?5 kgf

Medium Thrust?5?20 kgf

High Thrust?> 20 kgf

### Market segment by Power Class

Light Duty EDF (50 kW)

### Market segment by Diameter Class

Micro Class EDF (120 mm Rotor Diameter)

### Market segment by Application

Consumer

Industrial

Commercial

Defense & Security

Others

#### Major players covered

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

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)

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 Electric Ducted Fan product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of Electric Ducted Fan, with price, sales quantity, revenue, and global market share of Electric Ducted Fan from 2021 to 2026.

Chapter 3, the Electric Ducted Fan competitive situation, sales quantity, revenue, and global market share of top manufacturers are analyzed

emphatically by landscape contrast.

Chapter 4, the Electric Ducted Fan 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 Thrust Class and by Application, with sales market share and growth rate by Thrust Class, 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 Electric Ducted Fan market forecast, by regions, by Thrust Class, 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 Electric Ducted Fan.

Chapter 14 and 15, to describe Electric Ducted Fan sales channel, distributors, customers, research findings and conclusion.

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