

Global Flapping-Wing UAV 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 Flapping-Wing UAV market size was valued at US\$ 66.88 million in 2025 and is forecast to a readjusted size of US\$ 348 million by 2032 with a CAGR of 26.9% during review period.

A flapping-wing UAV, also referred to as a flapping-wing drone, ornithopter drone or flapping-wing micro air vehicle (FWMAV), is an unmanned aircraft that generates lift and propulsion primarily through periodic wing flapping, often combined with wing pitching, twisting, deformation or differential actuation for attitude control. These aircraft are generally inspired by birds, insects or bats and typically integrate a wing-actuation mechanism, flexible wings, flight-control electronics, communication and navigation systems, an energy source and optional mission payloads. Compared with conventional fixed-wing and rotary-wing UAVs, flapping-wing UAVs may provide lower acoustic signatures, enhanced biomimicry, high maneuverability, safer interaction with nearby objects and improved operation in confined environments. Bird-shaped aircraft that rely primarily on propellers are excluded from this definition.

The global flapping-wing UAV market remains an early-stage and highly fragmented niche within the wider drone industry. Current revenue comes from four main areas: defense and security development programs, research and educational platforms, industrial wildlife-management systems, and consumer or recreational ornithopters. Standardized mass production remains limited, and many technologically advanced systems are still prototypes, experimental platforms or project-based products rather than mature commercial UAV fleets.

North America is an important technology and application market, supported by defense-

funded micro-air-vehicle research, robotics development and commercial wildlife-management deployments. Europe has the strongest concentration of identifiable specialist commercial companies.

Asia-Pacific is expected to be the fastest-growing region, supported by China's UAV supply chain, consumer-electronics manufacturing, defense research and Japan's robotics capabilities. China already participates through consumer flapping-wing products and military or academic development programs.

The principal growth drivers are increasing demand for low-noise and visually discreet surveillance platforms, defense investment in micro and nano UAVs, growing interest in biologically inspired robotics, expansion of wildlife-management applications, and demand for safer drones in indoor or human-proximate environments. Soft flapping wings eliminate exposed high-speed propellers and can tolerate minor collisions better than conventional multicopters, which is advantageous for education, entertainment and confined-space operations.

Advances in lightweight composites, miniature brushless motors, lithium batteries, embedded processors, optical positioning, ultra-wideband localization and AI-based flight control are also improving commercial feasibility. Recent research shows continued progress in onboard autonomous flight, lightweight localization, wing flexibility and aerodynamic efficiency.

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

Global Flapping-Wing UAV 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 Flapping-Wing UAV market size and forecasts, by Type and by Application, in consumption value (\$ Million), sales quantity (K Units), and average selling prices (US\$/Unit), 2021-2032

Global Flapping-Wing UAV 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 Flapping-Wing UAV

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 Flapping-Wing UAV 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 Hanvon Technology (Go Go Bird), AERIUM Analytics Inc., Flapper s.r.o., XTIM SAS?Bionic Bird?, OrniHobby?Protoseni?, Festo SE & Co. KG, Flygildi ehf., AeroVironment, Inc., Ornadyne, EagleSight Dynamics, etc.

This report also provides key insights about market drivers, restraints, opportunities, new product launches or approvals.

Market Segmentation

Flapping-Wing UAV market is split by Type and by Application. For the period 2021-2032, the growth among segments provides accurate calculations and forecasts for consumption value by Type, 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 Type

Bird-Like Flapping-Wing UAV

Insect-Like Flapping-Wing UAV

Other

Market segment by Flight Capability

Forward-Flight Type

Hover-Capable Type

Market segment by Degree of Control and Autonomy

Remotely Piloted Type

Semi-Autonomous Type

Fully Autonomous Type

Market segment by Application

Consumer and Education

Research and Development

Commercial and Industrial

Military and Defens

Major players covered

Hanvon Technology (Go Go Bird)

AERIUM Analytics Inc.

Flapper s.r.o.

XTIM SAS?Bionic Bird?

OrniHobby?Protoseni?

Festo SE & Co. KG

Flygildi ehf.

AeroVironment, Inc.

Ornadyne

EagleSight Dynamics

Nakakita Seisakusho Co., Ltd.

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 Flapping-Wing UAV product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of Flapping-Wing UAV, with price, sales

quantity, revenue, and global market share of Flapping-Wing UAV from 2021 to 2026.

Chapter 3, the Flapping-Wing UAV competitive situation, sales quantity, revenue, and global market share of top manufacturers are analyzed emphatically by landscape contrast.

Chapter 4, the Flapping-Wing UAV 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 Type and by Application, with sales market share and growth rate by Type, 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 Flapping-Wing UAV market forecast, by regions, by Type, 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 Flapping-Wing UAV.

Chapter 14 and 15, to describe Flapping-Wing UAV sales channel, distributors, customers, research findings and conclusion.

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