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Global Coaxial Dual-rotor Nano UAVs Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global Coaxial Dual-rotor Nano UAVs market size is expected to reach $ 485 million by 2032, rising at a market growth of 10.3% CAGR during the forecast period (2026-2032).

In 2025, global coaxial dual-rotor nano UAVs production reached approximately 3633 units, the average price is 66 k usd/unit. Coaxial dual-rotor nano UAVs are a type of aircraft with a unique design. Resembling a bamboo dragonfly in appearance, they feature a cylindrical fuselage and no tail wings. Technologically, they have remarkable characteristics. The problems of high technical thresholds, severe homogenization, and insufficient platform capabilities existing in multi-rotor UAV platforms are improved in them. Without sacrificing overall performance, they reduce 70% of the whole aircraft's components. Their coaxial dual-rotor design has obvious advantages, as the aircraft does not require a tail rotor to balance the torque in the horizontal direction of the helicopter. Relying on these functions, characteristics, and advantages, they become a highly distinctive type of aircraft. Currently, they are applied in the military field as individual carrying or cooperative combat tools, and have not yet been involved in the civilian field.

Market Concentration and Major Players:

Internationally, the market for micro coaxial dual-rotor UAVs is highly concentrated, primarily in developed countries like Europe and America. Large manufacturers include Ascent AeroSystems and RAFAEL Advanced Defense Systems. Domestically, however, micro coaxial dual-rotor UAVs still have significant room for development.

Manufacturing Process and Market Trends:

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The manufacturing process for micro coaxial dual-rotor UAVs utilizes carbon fiber tubing or PA12 3D printing for the fuselage frame. The upper and lower rotors often use carbon fiber composites or high-precision injection molding to ensure dynamic balance. The central shaft is made of stainless steel or titanium alloy with micro-precision bearings to maintain concentricity. The motors are coaxial dual brushless motors with an integrated ESC package. The flight control system is based on STM32 microcontrollers running cascaded PID control to decouple coaxial pitch and yaw. After assembly, sensor calibration, ESC travel, and reverse steering verification are performed. High-end models further incorporate a servo-driven pitch control mechanism to avoid propeller knocking.

In terms of global market trends, military individual reconnaissance, indoor warehouse inspection, narrow space detection in pipeline ruins, and handheld consumer products constitute four main lines. Coaxial tail rotors bring advantages in compactness and wind resistance, but downwash aerodynamic interference remains a common bottleneck. Europe and the United States are iterating on high-end technologies such as traction variable pitch, optical flow ToF indoor positioning, and cluster collaboration from military and research institutions. China's supply chain is entering the market with consumer handheld products and low-to-mid-end industrial applications. Integrated motors and ESCs and lightweight topologies are the next watershed in terms of process technology.

This report studies the global Coaxial Dual-rotor Nano UAVs production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for Coaxial Dual-rotor Nano UAVs 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 Coaxial Dual-rotor Nano UAVs that contribute to its increasing demand across many markets.

Highlights and key features of the study
Global Coaxial Dual-rotor Nano UAVs total production and demand, 2021-2032, (Units)
Global Coaxial Dual-rotor Nano UAVs total production value, 2021-2032, (USD Million)
Global Coaxial Dual-rotor Nano UAVs production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (Units), (based on production site)
Global Coaxial Dual-rotor Nano UAVs consumption by region & country, CAGR, 2021-2032 & (Units)
U.S. VS China: Coaxial Dual-rotor Nano UAVs domestic production, consumption, key

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domestic manufacturers and share
Global Coaxial Dual-rotor Nano UAVs production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (Units)
Global Coaxial Dual-rotor Nano UAVs production by Weight, production, value, CAGR, 2021-2032, (USD Million) & (Units)
Global Coaxial Dual-rotor Nano UAVs production by Application, production, value, CAGR, 2021-2032, (USD Million) & (Units)

This report profiles key players in the global Coaxial Dual-rotor Nano UAVs 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 Ascent AeroSystems, RAFAEL Advanced Defense Systems, Beijing Zhuoyi Intelligent Technology, Suzhou Lanz Technology, Overwatch Group, Zhuhai Xuanji Power Technology, Senint(Suzhou) Technology, Diehl Defence, China Aerospace Aerodynamics Technology Research Institute (CAAA), AeroArc Pvt Ltd, 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 Coaxial Dual-rotor Nano UAVs market

Detailed Segmentation:

Each section contains quantitative market data including market by value (US$ Millions), volume (production, consumption) & (Units) and average price (K US$/Unit) by manufacturer, by Weight, 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 Coaxial Dual-rotor Nano UAVs Market, By Region:

United States

China

Europe

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Japan

South Korea

ASEAN

India

Rest of World

Global Coaxial Dual-rotor Nano UAVs Market, Segmentation by Weight:

Below 250g

2-7kg

7-20kg

Global Coaxial Dual-rotor Nano UAVs Market, Segmentation by Battery Life:

?15 min

15?30 min

?30 min

Global Coaxial Dual-rotor Nano UAVs Market, Segmentation by Load:

Visible Light

Infrared

Dual-light

Others

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Global Coaxial Dual-rotor Nano UAVs Market, Segmentation by Application:

Military/Police Use

Industrial Use

Emergency Use

Companies Profiled:

Ascent AeroSystems

RAFAEL Advanced Defense Systems

Beijing Zhuoyi Intelligent Technology

Suzhou Lanz Technology

Overwatch Group

Zhuhai Xuanji Power Technology

Senint(Suzhou) Technology

Diehl Defence

China Aerospace Aerodynamics Technology Research Institute (CAAA)

AeroArc Pvt Ltd

Key Questions Answered:
1. How big is the global Coaxial Dual-rotor Nano UAVs market?
2. What is the demand of the global Coaxial Dual-rotor Nano UAVs market?
3. What is the year over year growth of the global Coaxial Dual-rotor Nano UAVs market?
4. What is the production and production value of the global Coaxial Dual-rotor Nano UAVs market?

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5. Who are the key producers in the global Coaxial Dual-rotor Nano UAVs market?
6. What are the growth factors driving the market demand?

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