

Rotary Blade UAV Drones Market By Product Type (Less Than 8, More Than 8) , By Application (Law Enforcement Delivery, Disaster Management, Agriculture Monitoring, Others) : Global Opportunity Analysis and Industry Forecast, 2024-2033

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Abstracts

Rotary Blade UAV Drones Market

The rotary blade UAV drones market was valued at \$10.2 billion in 2023 and is projected to reach \$33.4 billion by 2033, growing at a CAGR of 12.6% from 2024 to 2033.

A rotary blade unmanned aerial vehicle (UAV) drone uses rotating blades to achieve its flight. It works on the principle of aerodynamic lift, in which the rotation of blades moves the air downward and helps in vertical take-off & landing. The drone has applications in several industries, including military, commercial uses, and scientific research. There are different types of rotor blades integrated into the drones such as single rotors, multiple rotors, or coaxial rotors.

Increase in the use of UAVs for several commercial applications such as in agriculture, aerial filming, surveying, and delivery services acts as a key driver of the rotary blade UAV drones market. In addition, rise in technological advancements in drone technology such as autonomous flight, enhanced sensors, and high-quality cameras is propelling the growth of the market. A notable trend gaining prominence in the market is the development of rotor blades with minimal to zero sound. Manufacturers are exploring advanced techniques such as neural network-based audio signal noise reduction and electromagnetic rotor modulation systems to reduce the emission of sound & expand the utility of drones in sensitive areas.

However, the high procurement and maintenance expenditure of rotary blade UAV drones deters several budget-sensitive individuals and organizations from their usage, hampering the development of the market. Moreover, rise in the stringency of regulations for flying drones and upsurge in the implementation of various no-fly zones & airspace restriction areas restrain the growth of the rotary blade UAV drones market. Contrarily, expansion of the e-commerce industry and deployment of drones to accomplish the deliveries are projected to present lucrative opportunities for the rotary blade UAV drones market. According to McKinsey—a global management consulting firm—more than 800,000 paid commercial deliveries occurred via UAVs globally in 2023. Drone delivery services are further expected to scale-up in the coming years and open new avenues for the market.

Segment Review

The rotary blade UAV drones market is segmented into product type, application, and region. On the basis of product type, the market is bifurcated into less than 8 and more than 8. Depending on application, it is divided into law enforcement delivery, disaster management, agriculture monitoring, and others. Region wise, it is analyzed across North America, Europe, Asia-Pacific, and LAMEA.

Key Findings

On the basis of product type, the less than 8 segment held a high share of the market in 2023.

Depending on application, the agriculture monitoring segment acquired a high stake in the market in 2023.

Region wise, Asia-Pacific was the highest revenue generator in 2023.

Competition Analysis

The major players in the global rotary blade UAV drones market include DJI, Parrot SA, Yuneec International, Aerovironment Inc., Boeing, Lockheed Martin Corporation, Northrop Grumman Corporation, Textron Inc., Thales Group, and Israel Aerospace Industries. These major players have adopted various key development strategies such as business expansion, new product launches, and partnerships to strengthen their foothold in the competitive market.

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Pain Point Analysis

Additional company profiles with specific to client's interest

Historic market data

SWOT Analysis

Key Market Segments

By Product Type

Less Than 8

More Than 8

By Application

Law Enforcement Delivery

Disaster Management

Agriculture Monitoring

Others

By Region

North America

U.S.

Canada

Mexico

Europe

France

Germany

Italy

Spain

UK

Russia

Rest of Europe

Asia-Pacific

China

Japan

India

South Korea

Australia

Thailand

Malaysia

Indonesia

Rest of Asia-Pacific

LAMEA

Brazil

South Africa

Saudi Arabia

UAE

Argentina

Rest of LAMEA

Key Market Players

DJI

Parrot SA

Yuneec International

Aerovironment Inc.

Boeing

Lockheed Martin Corporation

Northrop Grumman Corporation

Textron Inc.

Thales Group

Israel Aerospace Industries

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