

UAV Parachute Recovery Systems Market By Type (Spring Release Deployment, Sling/Catapult Release Deployment, Pyrotechnic Deployment, Compressed Gas Deployment) , By Drone Type (Fixed Wing, Rotary Wing) By Application (Cargo Transportation, Agriculture, Oil and Gas, Entertainment and Media, Military and Defense, Others) : Global Opportunity Analysis and Industry Forecast, 2024-2033

<https://marketpublishers.com/r/U9E7484BD1B9EN.html>

Date: November 2024

Pages: 434

Price: US\$ 2,790.00 (Single User License)

ID: U9E7484BD1B9EN

Abstracts

UAV Parachute Recovery Systems Market

The UAV parachute recovery systems market was valued at \$125.1 million in 2023 and is projected to reach \$246.2 million by 2033, growing at a CAGR of 7.3% from 2024 to 2033.

An unmanned aerial vehicle (UAV) parachute recovery system is a safety mechanism that slows down the drone during descent and ensures its soft landing during emergencies such as malfunction or loss of control. The integration of such safety mechanisms is essential in drone systems to prevent any damage to the device, payload, or individuals. There are different forms of UAV parachute recovery systems such as ballistic, spring-loaded, manual, and active control.

Increase in the usage of UAVs across multiple sectors, including military, agriculture, and infrastructure inspection has fueled the requirement for efficient safety systems, thereby driving the UAV parachute recovery systems market. In addition, rise in governmental mandates regarding the secure operation of drones to ensure public

safety has upsurged the adoption of UAV parachute recovery systems, which propels the growth of the market. A notable trend gaining prominence in the market in recent times is the development of hybrid or multiple recovery systems to enhance the safety of UAVs. For instance, manufacturers are exploring the assimilation of parachutes with ballistic airbag recovery or crash-proof airframes to provide additional layers of impact absorption.

However, the high cost of UAV parachute recovery systems owing to the presence of cutting-edge automatic deployment mechanisms and sensors acts as a barrier for several small-scale organizations, which restrains the development of the market. Contrarily, rise in retail deliveries using drone systems is poised to present remunerative opportunities for the UAV parachute recovery systems market as payload and public safety are crucial for effective delivery services. Gartner—an American technological research and consulting firm—predicts more than one million drones to be deployed in retail deliveries by 2026, rising from the current figure of approximately 20,000. Therefore, the expansion of e-commerce and quick delivery services is poised to open new avenues for the market.

Segment Review

The UAV parachute recovery systems market is segmented into type, drone type, application, and region. On the basis of type, the market is divided into spring release deployment, sling/catapult release deployment, pyrotechnic deployment, and compressed gas deployment. As per drone type, it is bifurcated into fixed wing and rotary wing. According to application, it is categorized into cargo transportation, agriculture, oil & gas, entertainment & media, military & defense, and others. Region wise, it is analyzed across North America, Europe, Asia-Pacific, and LAMEA.

Key Findings

On the basis of type, the spring release deployment segment is expected to acquire a notable stake in the market during the forecast period.

As per drone type, the rotary wing segment is projected to be the highest shareholder by 2033.

According to application, the military & defense segment is anticipated to dominate the market from 2024 to 2033.

Region wise, North America is predicted to be the highest revenue generator by 2033.

Competition Analysis

The major players in the global UAV parachute recovery systems market include Butler Parachute Systems, CIMSA Ingenier?a de Sistemas S.A., Drone Rescue Systems GmbH, EKOFASTBA S.L., Fruity Chutes, Galaxy GRS, Indemnis, Mars Parachutes, ParaZero Ltd., and Skycatch. 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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Market share analysis of players by products/segments

Additional company profiles with specific to client's interest

Criss-cross segment analysis- market size and forecast

SWOT Analysis

Key Market Segments

By Type

Spring Release Deployment

Sling/Catapult Release Deployment

Pyrotechnic Deployment

Compressed Gas Deployment

By Drone Type

Fixed Wing

Rotary Wing

By Application

Cargo Transportation

Agriculture

Oil and Gas

Entertainment and Media

Military and Defense

Others

By Region

North America

U.S.

Canada

Mexico

Europe

UK

Germany

France

Russia

Rest of Europe

Asia-Pacific

China

Japan

India

South Korea

Rest of Asia-Pacific

LAMEA

Latin America

Middle East

Africa

Key Market Players

Butler Parachute Systems

CIMSA Ingenier?a de Sistemas S.A.

Drone Rescue Systems GmbH

EKOFASTBA S.L.

Fruity Chutes

Galaxy GRS

Indemnis

Mars Parachutes

ParaZero Ltd.

Skycatch

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