

Unmanned Helicopter Market By Type (Small (0-20 lbs) , Medium (21-55 lbs)) .) , By Application (Military, Government Agency, Industrial, Others) By End-user (Defense agencies, Law Enforcement, Emergency Services) : Global Opportunity Analysis and Industry Forecast, 2024-2033

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Abstracts

Unmanned Helicopter Market

The unmanned helicopter market was valued at \$5.8 billion in 2023 and is projected to reach \$24.2 billion by 2033, growing at a CAGR of 15.4% from 2024 to 2033.

An unmanned helicopter, also known as unmanned aerial vehicle (UAV), is a medium of conveyance that does not require a human for its operation. Unmanned helicopters either fly autonomously or are piloted remotely and serve as an essential asset for the military sector. Advancements in technology have led to miniaturization of UAVs, diversifying their utility across non-military applications such as environmental monitoring, aerial photography, precision agriculture, infrastructure inspections, and package deliveries.

Advancements in technology have led to enhancement in features of unmanned helicopters, including remarkable navigation systems, improved battery life, and upgraded autonomy. These enhancements have increased the adoption of UAVs for various applications, propelling the growth of the market. In addition, rise in prevalence of natural calamities has elevated the role of unmanned helicopters in disaster management and rescue operations. This drives the market growth substantially. An emerging trend anticipated to dominate in the future is the deployment of smart

swarming capabilities into unmanned helicopters. The technology is projected to enable independent interaction of drones with each other, along with data transfer, analysis, and collaborative decision-making.

However, the high expense of production of cutting-edge unmanned helicopters with ingenious attributes restricts its applicability, restraining the growth of the market. Furthermore, the vehicles integrated with smart technologies remain at a high risk of data breach and cyberattacks, which hampers the development of the unmanned helicopter market. According to IOActive, a cybersecurity firm, the integration of electromagnetic (EM) glitches into drones during firmware updates compromises their security. The glitch allows hackers to gain access to the operating system of the device which regulates the core operations. The firm states that the glitches are highly powerful, offering direct access to automatic dependent surveillance-broadcast and disclosing the encryption keys.

Segment Review

The unmanned helicopter market is segmented by type, application, end user, and region. On the basis of type, the market is bifurcated into small (0-20 lbs) and medium (21-55 lbs). Depending on application, it is divided into military, government agency, industrial, and others. As per end user, it is classified into defense agencies, law enforcement, and emergency services. Region wise, it is analyzed across North America, Europe, Asia-Pacific, Latin America, and Middle East & Africa.

Key Findings

On the basis of type, the small (0-20 lbs) segment is expected to exhibit a high growth throughout the forecast period.

Depending on application, the military segment is projected to be the highest shareholder by 2033.

As per end user, the emergency services segment is anticipated to acquire a high stake in the market during the forecast period.

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

Competition Analysis

The leading players operating in the global unmanned helicopter market include Schiebel Group, Yamaha Motor Company, MD Helicopters, CybAero, Elbit Systems, Northrop Grumman, Leonardo, AVIC Helicopter Company, Airbus Helicopters, and Lockheed Martin. 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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SWOT Analysis

Key Market Segments

By Type

Small (0-20 lbs),

Medium (21-55 lbs)).

By Application

Military

Government Agency

Industrial

Others

By End-user

Defense agencies

Law Enforcement

Emergency Services

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

Latin America

Brazil

Argentina

Rest of Latin America

Middle East and Africa

UAE

Saudi Arabia

South Africa

Rest of Middle East and Africa

Key Market Players

Schiebel Group

Yamaha Motor Company

MD Helicopters

CybAero

Elbit Systems

Northrop Grumman

Leonardo

AVIC Helicopter Company

Airbus Helicopters

Lockheed Martin

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