# Drones Market Report by Type (Fixed Wing, Rotary Wing, Hybrid), Component (Hardware, Software, Accessories), Payload (<25 Kilograms, 25-170 Kilograms, >170 Kilograms), Point of Sale (Original Equipment Manufacturers (OEM), Aftermarket), End-Use Industry (Construction, Agriculture, Military and Defense, Law Enforcement, Logistics, Media and Entertainment, and Others), and Region 2024-2032

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**Report description:**

The global drones market size reached US$ 27.7 Billion in 2023. Looking forward, IMARC Group expects the market to reach US$ 59.2 Billion by 2032, exhibiting a growth rate (CAGR) of 10.84% during 2024-2032. The growing consumer interest in recreational activities, such as drone racing and personal photography, the implementation of government regulations and supportive policies, and the integration of IoT, 5G, and augmented reality are some of the major factors propelling the market.

Drones, also known as unmanned aerial vehicles (UAVs), are flying devices that can be remotely operated or fly autonomously through software-controlled flight plans. These devices have a wide range of applications including aerial photography, surveillance, agriculture, and disaster management. Equipped with various technologies such as cameras, GPS, and sensors, drones are able to collect and transmit data in real time. They vary in size and complexity, ranging from small consumer models to large industrial-grade drones. The utilization of drones has grown substantially in recent years due to technological advancements, reduced costs, and increased accessibility. Regulations and safety concerns continue to shape the evolving landscape of drone usage, making them a prominent topic in modern technology discussions.

The rise in consumer interest in recreational activities, such as drone racing and personal photography, is creating a robust market. Hobbyists and enthusiasts are increasingly adopting drones, and this trend is expected to continue with the introduction of more user-friendly and affordable models. Along with this, government regulations and supportive policies play a vital role in

shaping the drone industry. Countries across the world are working to establish clear legal frameworks and regulations that ensure the safe and responsible usage of the product. These guidelines cover aspects such as pilot certification, flight restrictions, privacy concerns, and safety standards. Therefore, this is significantly supporting the market. In healthcare, drones are opening new avenues for delivering medical supplies to remote or difficult-to-access areas. They are being employed in transporting blood samples, vaccines, and essential medical equipment, thereby optimizing healthcare services and potentially saving lives, further impacting the market. Moreover, the integration of IoT, 5G, and augmented reality is creating a positive market outlook.

Drones Market Trends/Drivers:
Technological Advancements and Innovation

The development and adoption of drones have been strongly influenced by technological advancements and continuous innovation. The ongoing enhancement of key technologies such as GPS, navigation systems, battery life, and sensor capabilities has enabled drones to become more versatile and capable. Cutting-edge features, including obstacle detection, artificial intelligence, and machine learning have expanded the product's functionality, enabling them to perform complex tasks with increased efficiency and precision. These technological advancements have facilitated the deployment of the product across various sectors such as agriculture, construction, defense, and emergency response. The rapid pace of innovation has led to reduced manufacturing costs and increased affordability, making drones accessible to a wider audience. Furthermore, collaboration between industry stakeholders, including manufacturers, technology providers, and regulatory authorities, has fostered an environment conducive to continued growth and technological evolution.

Government Regulations and Supportive Policies

Government regulations and supportive policies play a vital role in shaping the drone industry. Countries around the world are working to establish clear legal frameworks and regulations that ensure the safe and responsible usage of the product. These guidelines cover aspects such as pilot certification, flight restrictions, privacy concerns, and safety standards. Regulatory support fosters innovation, encourages investment, and builds consumer trust. Governments are also actively investing in research, development, and pilot projects, demonstrating a commitment to the industry's growth. Collaborative efforts between regulatory bodies, industry stakeholders, and academic institutions are laying the foundation for a well-structured market, contributing to the commercialization and standardization of drone technology.

Global Initiatives for Disaster Management and Emergency Response

Drones are playing a pivotal role in disaster management and emergency response, acting as a significant driver for the industry's growth. In the wake of natural disasters, including earthquakes, floods, and wildfires, drones provide rapid assessment and real-time information, enabling more effective rescue and relief operations. The ability to access hard-to-reach areas, provide aerial imagery, and deliver essential supplies has made drones indispensable tools in emergency scenarios. Governments, NGOs, and international agencies are increasingly integrating drones into their disaster management strategies, recognizing their potential to save lives and reduce damage. Global initiatives promoting the use of technology in humanitarian efforts are reinforcing the value of drones and fostering collaborative projects across nations. This global recognition of drones as essential tools for emergency response is bolstering the industry, ensuring continued expansion and innovation.

Drones Industry Segmentation:
IMARC Group provides an analysis of the key trends in each segment of the global drones market report, along with forecasts at the global, regional and country levels from 2024-2032. Our report has categorized the market based on type, component, payload, point of sale and end-use industry.

Breakup by Type:

Fixed Wing
Rotary Wing
Hybrid

Fixed wing dominates the market

The report has provided a detailed breakup and analysis of the market based on the type. This includes fixed wing, rotary wing, and hybrid. According to the report, the fixed wing represented the largest segment.

Market drivers for fixed-wing drones in the drone industry are pivotal factors that influence the growth and development of this segment. These drivers stem from a confluence of technological advancements, operational efficiencies, and expanding applications. Additionally, fixed-wing drones excel in covering large areas swiftly and efficiently, making them highly suitable for tasks such as aerial mapping, surveying, agriculture, and environmental monitoring. The extended flight times enabled by their design provide a distinct advantage over multi-rotor counterparts, enhancing their suitability for long-range missions. Moreover, the rising demand for accurate geospatial data, particularly in industries like construction, mining, and agriculture, underscores the market's growth trajectory. Regulatory frameworks that increasingly accommodate the integration of drones into various sectors further bolster the market's expansion. As industries continue to recognize the value of efficient data acquisition and analysis, the fixed-wing drone segment is poised to experience sustained growth, offering a compelling solution for diverse applications across the commercial landscape.

Breakup by Component:

Hardware
Software
Accessories

Hardware holds the largest share in the market

A detailed breakup and analysis of the market based on the component has also been provided in the report. This includes hardware, software, and accessories. According to the report, hardware accounted for the largest market share.

Market drivers for hardware components in the drones industry play a pivotal role in shaping the technological landscape and driving its evolution. These drivers stem from a synergy of factors that combine innovation, functionality, and demand. The continuous pursuit of lightweight, high-performance materials and components fuels advancements in drone hardware. As drones find increased adoption in sectors such as agriculture, infrastructure inspection, and surveillance, there is a growing need for specialized sensors, cameras, and communication modules that enhance their capabilities. The demand for reliable and precise navigation, improved battery efficiency, and data processing prowess further propels the innovation in drone hardware components. Additionally, cost efficiencies achieved through economies of scale and streamlined manufacturing processes contribute to the growth of this market. As industries realize the transformative potential of drones in optimizing operations and data collection, the market for hardware components is poised to experience sustained expansion. The confluence of cutting-edge technology, market demand, and efficient production methodologies establishes hardware components as a crucial driver of progress within the drones industry.

Breakup by Payload:

<25 Kilograms

25-170 Kilograms
>170 Kilograms

<25 kilograms payload dominates the market

The report has provided a detailed breakup and analysis of the market based on the payload. This includes <25 kilograms, 25-170 kilograms, and >170 kilograms. According to the report, <25 kilograms accounted for the largest market share.

Market drivers for drones with a payload capacity of less than 25 kilograms in the industry are pivotal forces that shape the trajectory of this specific segment. These drivers emanate from a fusion of technological innovation, regulatory developments, and diverse application demands. Drones within this weight category offer a versatile solution for various sectors, including aerial photography, small-scale delivery, environmental monitoring, and infrastructure inspection. In addition, the growing need for cost-effective, agile, and easily deployable aerial solutions across industries fuels the demand for drones with sub-25-kilogram payloads. Regulatory frameworks that facilitate the integration of lightweight drones into airspace operations also contribute significantly to the market's expansion. Technological advancements in miniaturization, battery efficiency, and communication systems further bolster the capabilities of these drones, making them more efficient and user-friendly. As businesses and industries recognize the value of incorporating aerial capabilities into their operations, the demand for sub-25-kilogram payload drones is expected to remain robust, driving continuous innovation and market growth.

Breakup by Point of Sale:

Original Equipment Manufacturers (OEM)
Aftermarket

Original equipment manufacturers (OEM)  holds the largest share in the market

A detailed breakup and analysis of the market based on the point of sale has also been provided in the report. This includes original equipment manufacturers (OEM) and aftermarket. According to the report, original equipment manufacturers (OEM) accounted for the largest market share.

Market drivers for original equipment manufacturers (OEM) point of sale within the drones industry encompass a series of factors that significantly influence this specific market segment. These drivers emanate from a combination of industry dynamics, technological advancements, and consumer preferences. OEM point of sale serves as a critical avenue for businesses to access a range of drone components, ensuring quality, compatibility, and customization. As the drone industry matures, the demand for specialized components such as sensors, propulsion systems, and communication modules continues to grow. This necessitates a reliable supply chain from OEMs, driving innovation and competition in the market. Additionally, the rising popularity of drone applications across sectors like agriculture, surveillance, and logistics underscores the need for OEMs to provide diverse, high-quality offerings. Technological advancements in drone hardware and software further amplify this demand, as OEMs play a central role in introducing cutting-edge features to the market. As industries increasingly recognize the benefits of tailored drone solutions, the OEM point of sale market is poised for sustained growth, fostering collaboration and driving the evolution of the broader drones industry.

Breakup by End-Use Industry:

Construction
Agriculture
Military and Defense

Law Enforcement
Logistics
Media and Entertainment
Others

Military and defense dominates the market

The report has provided a detailed breakup and analysis of the market based on the end-use industry. This includes construction, agriculture, military and defense, law enforcement, logistics, media and entertainment, and others. According to the report, military and defense accounted for the largest market share.

Market drivers for the military and defense end-use industry within the drones sector are critical factors that significantly influence this specialized market segment. These drivers arise from a convergence of security imperatives, technological advancements, and operational requirements. Drones have revolutionized military and defense operations by providing enhanced reconnaissance, surveillance, and target acquisition capabilities. In addition, the growing need for real-time situational awareness, border security, and counterterrorism efforts propels the demand for advanced drone technologies. Along with this, the development of autonomous and semi-autonomous drones offers strategic advantages in reducing human risk and increasing operational efficiency. As governments and defense agencies prioritize the integration of drones into their operations, investments in research and development of cutting-edge drone technologies rise. Furthermore, the emergence of multidomain warfare strategies underscores the importance of versatile drones that can operate across land, air, and sea domains. These drivers, coupled with geopolitical factors and the ongoing pursuit of technological superiority, contribute to the steady growth of the military and defense end-use market within the drones industry.

Breakup by Region:

North America
United States
Canada
Asia Pacific
China
Japan
India
South Korea
Australia
Indonesia
Others
Europe
Germany
France
United Kingdom
Italy
Spain
Russia
Others
Latin America
Brazil
Mexico

Others
Middle East and Africa

North America exhibits a clear dominance, accounting for the largest drones market share

The report has also provided a comprehensive analysis of all the major regional markets, which include North America (the United States and Canada); Asia Pacific (China, Japan, India, South Korea, Australia, Indonesia, and others); Europe (Germany, France, the United Kingdom, Italy, Spain, Russia, and others); Latin America (Brazil, Mexico, and others); and the Middle East and Africa. According to the report, North America accounted for the largest market share.

Market drivers for the drones industry in North America stem from a confluence of technological innovation, regulatory developments, and diverse applications. The region's well-established research and development infrastructure, coupled with a culture of entrepreneurship, has led to pioneering advancements in drone technology. Along with this, the growing applications of drones across sectors such as agriculture, infrastructure, and public safety are driving market expansion. Regulatory frameworks that accommodate commercial drone operations and prioritize safety have paved the way for increased adoption.

Moreover, North America's robust aerospace industry and investment in drone startups contribute to a dynamic ecosystem, fostering continuous innovation and competition. The region's vast landscapes and varied industries create a demand for drones with diverse capabilities, from precision agriculture to disaster response. As industries increasingly integrate drones to optimize operations and data collection, North America's drones market is set to experience sustained growth, solidifying its position as a global hub for drone technology development and deployment.

Competitive Landscape:
The global drones market is experiencing significant growth due to the escalating number of research and development to enhance drone capabilities. This includes improving flight stability, battery life, range, payload capacity, and the integration of advanced sensors and cameras for better data collection and analysis. Along with this, companies are tailoring drones for specific industries, such as agriculture, construction, mining, oil and gas, environmental monitoring, and public safety. They are designing drones with specialized features and payloads to meet the unique requirements of these sectors. In addition, manufacturers are working on developing autonomous and semi-autonomous drone systems to perform tasks without constant manual intervention, increasing efficiency and reducing the need for skilled operators. Therefore, this is positively influencing the market. Apart from this, the development of software platforms for flight planning, data processing, and analysis is significantly supporting the market. Furthermore, the integration of third-party sensors, cameras, and other components to create a tailored solution is contributing to the market.

The report has provided a comprehensive analysis of the competitive landscape in the global drones market. Detailed profiles of all major companies have also been provided. Some of the key players in the market include:

3D Robotics
AeroVironment Inc
Birdseyeview Aerobotics Inc.
Delair SAS
DroneDeploy Inc.
Intel Corporation
Parrot SA
Precisionhawk Inc.
SZ DJI Technology Co. Ltd. (iFlight Technology Co. Ltd.)
Terra Drone Corporation

Boeing Company
Recent Developments:
In July 2023, Currawong Engineering stated that it will continue its relationship with AeroVironment Inc. by giving the company's JUMP-20 unmanned aircraft system (UAS) the upcoming batch of High-Performance Velocity Electronic Speed Controllers (ESC).
In October 2022, DroneDeploy Inc. acquired StructionSite to integrate aerial and ground-based capture. It integrates the two aerial and ground capture solution providers into a single platform, enabling users to deploy drones, ground robots, and handheld 360-degree cameras to record their locations with ease.
In August 2023, Parrot SA stated that it will decrease its employment by about 20% and discontinue buying components from China. Despite weak drone sales, the corporation aims to scale back on its financial outlays.

Key Questions Answered in This Report

1. What was the size of the global drones market in 2023?
2. What is the expected growth rate of the global drones market during 2024-2032?
3. What are the key factors driving the global drones market?
4. What has been the impact of COVID-19 on the global drones market?
5. What is the breakup of the global drones market based on the type?
6. What is the breakup of the global drones market based on the component?
7. What is the breakup of the global drones market based on the payload?
8. What is the breakup of the global drones market based on the point of sale?
9. What is the breakup of the global drones market based on the end-use industry?
10. What are the key regions in the global drones market?
11. Who are the key players/companies in the global drones market?

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