

Construction Drone Market Report by Type (Fixed Wing Drone, Rotary Wing Drone), Application (Surveying Land, Infrastructure Inspection, Security and Surveillance, and Others), End User (Residential, Commercial, Industrial), and Region 2024-2032

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Abstracts

The global construction drone market size reached US\$ 6,161.9 Million in 2023. Looking forward, IMARC Group expects the market to reach US\$ 20,453.4 Million by 2032, exhibiting a growth rate (CAGR) of 14% during 2024-2032. The expanding infrastructural development, the rising demand for advanced construction technologies, and the growing need for precise and detailed site maps and surveys represent some of the key factors driving the market.

Construction drones are remotely controlled unmanned aerial vehicles (UAVs) that are used in the construction industry for surveying, inspection, monitoring, and safety purposes. They are equipped with a global positioning system (GPS) and various downward-facing sensors, such as RGB (red, green, and blue), multispectral and thermal cameras, and light detection and ranging (LiDAR) technology, which helps capture high-resolution images and data. This information is used for site mapping, progress tracking, and quality control. Construction drones provide real-time location references and are used to inspect hard-to-reach areas, such as roofs and tall structures, reducing the risk of accidents and injuries. In addition to this, they help gather precise survey maps and aerial images of construction sites, materials, machinery, and personnel and identify potential issues that might not be apparent during ground-level inspections. As a result, they are widely popular among contractors, building planners, designers, academics, engineers, and architects.

Construction Drone Market Trends:

Extensive focus on infrastructure development and the increasing demand for advanced technologies that can improve reporting accuracy, safety conditions, cost-effectiveness, and workflow efficiency on construction sites represents the key factor driving the market growth. Besides this, the growing need for accurate and detailed data for construction site mapping, surveying, and inspection is positively impacting the market growth. Moreover, the large-scale product utilization for three-dimensional (3D) modeling and photogrammetric purposes, such as volume measurement, is presenting remunerative growth opportunities for the market. Concurrent with this, the expanding product utilization in the construction industry for inspecting and maintaining pavements, highways, bridges, buildings, facades, and historical monuments is contributing to the market growth. In addition to this, these drones are extensively employed for remotely surveying high-risk areas and high-rise and tall buildings, which is acting as another significant growth-inducing factor. In line with this, they help accelerate the process of terrain surveys by capturing data more quickly than traditional methods, which, in turn, is creating a favorable outlook for the market. Furthermore, the rise in urbanization, the increasing number of smart city initiatives, ongoing product innovations, such as the integration of advanced cloud computing and the internet of things (IoT) technologies, and the growing demand for sustainable construction solutions are aiding in market expansion.

Key Market Segmentation:

IMARC Group provides an analysis of the key trends in each sub-segment of the global construction drone market report, along with forecasts at the global, regional and country level from 2024-2032. Our report has categorized the market based on type, application and end user.

Type Insights:

Fixed Wing Drone

Rotary Wing Drone

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

Application Insights:

Surveying Land

Infrastructure Inspection

Security and Surveillance
Others

A detailed breakup and analysis of the construction drone market based on the application has also been provided in the report. This includes surveying land, infrastructure inspection, security and surveillance, and others. According to the report, surveying land accounted for the largest market share.

End User Insights:

Residential
Commercial
Industrial

The report has provided a detailed breakup and analysis of the construction drone market based on the end user. This includes residential, commercial, and industrial.

Regional Insights:

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

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, Asia Pacific was the largest market for construction drone. Some of the factors driving the Asia Pacific construction drone market included ongoing infrastructural development activities, the growing adoption of advanced construction technologies, and innovative technological advancements in the industry.

Competitive Landscape:

The report has also provided a comprehensive analysis of the competitive landscape in the global construction drone market. Competitive analysis such as market structure, market share by key players, player positioning, top winning strategies, competitive dashboard, and company evaluation quadrant has been covered in the report. Also, detailed profiles of all major companies have been provided. Some of the companies covered include 3d Robotics Inc., Aerialtronics, Delair, Dronedeploy Inc., Kespry Inc., Parrot Drone SAS, Precisionhawk Inc., Skydio Inc., SZ DJI Technology Co. Ltd. (iFlight Technology Company Limited), Teledyne Flir LLC (Teledyne Technologies), and Yuneec International Co. Ltd. Kindly note that this only represents a partial list of companies, and the complete list has been provided in the report.

Key Questions Answered in This Report

1. What was the size of the global construction drone market in 2023?
2. What is the expected growth rate of the global construction drone market during 2024-2032?
3. What has been the impact of COVID-19 on the global construction drone market?
4. What are the key factors driving the global construction drone market?
5. What is the breakup of the global construction drone market based on the type?
6. What is the breakup of the global construction drone market based on the application?
7. What are the key regions in the global construction drone market?
8. Who are the key players/companies in the global construction drone market?

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