

# Smart Construction Drone Market Projected to Witness a Growth of US \$6.33 Bn by 2029 | The Business Research Company

*The Business Research Company's Smart Construction Drone Global Market Report 2025 - Market Size, Trends, And Global Forecast 2025-2034*

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Smart Construction Drone Market Growth Forecast: What To Expect By 2025?

In recent times, [the market size for smart construction drones](#) has seen swift expansion. It is projected to escalate from \$3.31 billion in 2024 to \$3.77 billion in 2025, with a compound annual growth rate (CAGR) of 14.2%. The significant growth during the historical period can be attributed to several factors such as the widespread adoption of GPS and GIS technologies, the burgeoning demand for real-time surveillance of projects, escalating labor shortages in the construction sector, an increase in infrastructure development projects, and the growing use of photogrammetry in construction.

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Rapid expansion is anticipated for [the smart construction drone market](#) in the coming years, with its size projected to

reach \$6.33 billion by 2029, showcasing a compound annual growth rate (CAGR) of 13.8%. The predicted growth during the forecast window is due to the escalating utilization of drones for inspections and thermal imaging, surging automated progress report demand, increased funding in smart city initiatives, improved regulations favoring commercial usage of drones, and a heightened emphasis on lowering the carbon footprint in construction work. Major forward-looking trends include progression in AI and machine learning for independent data examination, incorporation with digital twin platforms for instantaneous modeling, the

introduction of 5G activated drones enabling ultra-low latency data transmission, drone swarming development for synchronized task performance, and union with robotics and construction technology for intelligent site automation.

Download a free sample of the smart construction drone market report:

<https://www.thebusinessresearchcompany.com/sample.aspx?id=25569&type=smp>

What Are Key Factors Driving The Demand In The Global Smart Construction Drone Market?

The expansion of infrastructure projects is anticipated to fuel the rise of the smart construction drone market in the future. Infrastructure projects pertain to large-scale ventures dedicated to the construction or enhancement of vital systems such as transportation, utilities, and public facilities, which are crucial for economic and societal operations. The rising number of these projects results from speedy urbanization, leading to an increased need for transportation, utilities, and public services to cater to expanding urban populations. Smart construction drones play a pivotal role in these projects by offering real-time aerial data for site surveys, progress tracking, and safety checks, thereby improving efficiency, precision, and decision-making. For example, as per the Infrastructure and Projects Authority, a government agency based in the UK, in February 2024, the planned investment for significant infrastructure and construction projects in the UK for the fiscal year 2024-25 is projected at \$201.52 billion (£164 billion). This represents a rise from the prior year and implies robust economic progress. The investment in this sector over the following ten years is estimated to fluctuate between \$858.1 billion (£700 billion) and \$953.25 billion (£775 billion), suggesting ongoing long-term growth and advancement. Therefore, the surge in infrastructure projects contributes to [the expansion of the smart construction drone market](#).

Who Are The Leading Players In The Smart Construction Drone Market?

Major players in the Smart Construction Drone Global Market Report 2025 include:

- Komatsu Ltd.
- DJI Technology Co. Ltd.
- Yuneec International Co. Ltd.
- AeroVironment
- Topcon Positioning Systems Inc
- Skydio Inc.
- Microdrones GmbH
- Autel Robotics Co. Ltd.
- DroneDeploy Inc.
- Wingtra

What Are Some Emerging Trends In The Smart Construction Drone Market?

Key players in the smart construction drone market are increasingly focusing on producing advanced technology like AI-equipped construction drones. These sophisticated vehicles are designed to optimize site monitoring, increase operational efficiency, and support real-time data-driven decisions in construction projects. AI-based construction drones are state-of-the-art

unmanned aerial vehicles (UAVs) fitted with AI algorithms and intelligent sensors. Their primary function is to autonomously undertake complicated tasks in construction sites, such as real-time site surveys, progress monitoring, structural issue detection, and the creation of 3D maps and models with minimal human involvement. For instance, Komatsu Ltd., a Japanese manufacturing company, launched a product called the Smart Construction Drone in January 2022. This drone expedites site surveys making them safer and more precise, reportedly being 50% faster than traditional manual methods. This also aids in reducing operational expenses and mitigating risks to personnel. The objective is to simplify data collection processes in planning, tracking production, and reporting, ultimately improving project efficiency and decision-making. This newly enhanced device allows users at every skill level to execute accurate drone surveys, seamlessly removing hindrances like machinery to form accurate 3D landscape maps.

Analysis Of Major Segments Driving The Smart Construction Drone Market Growth  
The smart construction drone market covered in this report is segmented –

- 1) By Type: Fixed Wing Drones, Rotary Wing Drones, Hybrid Drones
- 2) By Payload Capacity: Lightweight (Up To 5 kg), Medium (5 kg To 15 kg), Heavyweight (More Than 15 kg)
- 3) By Application: Surveying, Mapping, Inspection, Monitoring, Construction Site Management
- 4) By End-User: Construction Companies, Real Estate Developers, Engineering Firms, Government Agencies, Infrastructure Development Firms

Subsegments:

- 1) By Fixed Wing Drones: Conventional Fixed Wing, Vertical Take-Off And Landing (VTOL) Fixed Wing, Solar-Powered Fixed Wing
- 2) By Rotary Wing Drones: Single Rotor, Multi Rotor
- 3) By Hybrid Drones: Fixed-Wing Vertical Take-Off And Landing Hybrid, Rotary-Fixed Wing Hybrid, Tilt-Rotor Hybrid

View the full smart construction drone market report:

<https://www.thebusinessresearchcompany.com/report/smart-construction-drone-global-market-report>

Which Region Is Expected To Lead The Smart Construction Drone Market By 2025?

In 2024, North America held the leading position in the smart construction drone market. However, Asia-Pacific is projected to be the region with the most rapid growth within the forecast period. The global market report for smart construction drones encompasses regions such as Asia-Pacific, Western Europe, Eastern Europe, North America, South America, Middle East, and Africa.

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