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Construction Equipment Telematics Market Opportunity, Growth Drivers, Industry Trend Analysis, and Forecast 2025 to 2034

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Abstracts

The Global Construction Equipment Telematics Market, valued at USD 1.5 billion in 2024, is expected to expand at a robust CAGR of 12.4% from 2025 to 2034. This growth is primarily driven by the rapid urbanization and the ongoing expansion of road infrastructure worldwide.As cities continue to grow and develop, there is an increasing demand for advanced construction machinery and telematics solutions. These systems are essential for managing large-scale projects by offering real-time monitoring of equipment performance, tracking usage, and enhancing fleet management efficiency. The adoption of telematics in construction is crucial for reducing downtime, optimizing operations, and ensuring timely project completion.

The construction industry is increasingly turning to telematics to manage commercial vehicles used in various infrastructure projects. Remote monitoring capabilities provide construction companies with essential insights into fleet operations, enabling them to improve productivity. The integration of telematics allows for better decision-making by offering data that helps streamline equipment maintenance and monitoring performance metrics.

In terms of equipment type, the market includes various segments such as cranes, excavators, telescopic handlers, loaders, backhoes, and others. Among these, loaders and backhoes accounted for the largest market share in 2024, owing to the widespread adoption of telematics across a wide variety of construction machinery, such as compactors and dump trucks. The growing need for real-time data to track equipment performance and reduce downtime has played a significant role in the market growth of this segment.

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Excavators also experienced considerable adoption of telematics systems, as operators increasingly rely on real-time data for tasks like predictive maintenance and fuel efficiency optimization. Other equipment like telescopic handlers, loaders, and backhoes benefit from telematics by providing valuable fleet management insights, reducing downtime, and improving performance by monitoring usage patterns and maintenance needs.

The construction equipment telematics market is divided into OEM (original equipment manufacturer) and aftermarket segments. In 2024, the OEM segment held a dominant share, accounting for 68.5% of the market. This is due to manufacturers increasingly integrating telematics systems directly into new construction equipment. Leading OEMs are offering pre-installed telematics solutions that provide real-time data on performance, diagnostics, and maintenance to improve equipment efficiency and minimize downtime.

The aftermarket segment is also growing, driven by the demand to retrofit older equipment with telematics systems. This trend is popular among fleet owners looking to extend the lifespan of their equipment and optimize its performance with modern technology. The awareness of telematics' value across various types of construction machinery is fueling this segment's growth, as more companies seek solutions to enhance operational efficiency.

In North America, the United States plays a significant role in the construction equipment telematics market. By 2034, the U.S. market is projected to surpass USD 1.2 billion. This growth is driven by the adoption of advanced technologies such as IoT, 4G/5G connectivity, and cloud computing, which are essential for optimizing fleet management and reducing maintenance costs. The large and mature construction industry in the U.S. relies heavily on telematics to improve operational efficiency and meet sustainability and regulatory standards for emissions and safety.

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Contents

Report Content

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CHAPTER 10 COMPANY PROFILES

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