

# Off-highway Vehicles Market Size, Share & Trends Analysis Report By Type (Construction, Mining, Agriculture), By Propulsion Type (ICE, Electric), By Region (North America, Asia Pacific), And Segment Forecasts, 2025 - 2030

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## Abstracts

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### Off-highway Vehicles Market Trends

The global off-highway vehicles market size was valued at USD 544.07 billion in 2024 and is projected to grow at a CAGR of 6.9% from 2025 to 2030. The market is growing due to rising infrastructure projects, increased mechanization in agriculture, and the need for more efficient mining equipment. Additionally, advancements in electrification, autonomous technology, and low-emission powertrains are driving further expansion. However, high initial costs and strict emission regulations remain key challenges.

Massive infrastructure investments worldwide are fueling the growing demand for off-highway vehicles. China's Belt and Road Initiative (BRI) has provided USD 679 billion for global projects in transportation and energy, boosting the need for construction & mining machinery. Similarly, in January 2025, the U.S. RAISE program allocated USD 1.32 billion to modernize roads and bridges, increasing demand for earthmoving and material-handling equipment. These initiatives highlight the growing reliance on off-highway vehicles to support large-scale infrastructure expansion.

The industry is driven by the need for more efficient and technologically advanced mining equipment as global mineral extraction intensifies. For instance, India is a major

producer of coal, iron ore, and bauxite and relies heavily on open-pit mining, which makes up 90% of its mining operations. This has led to a surging demand for high-performance haul trucks, excavators, and drilling machines to improve efficiency and reduce costs. Additionally, India's 100% FDI policy in mining is accelerating investment in automated and fuel-efficient mining equipment, further boosting the adoption of next-generation off-highway vehicles for large-scale extraction activities.

Rising labor shortages, increasing food demand, and government incentives are driving rapid mechanization in agriculture. For instance, India's Sub-Mission on Agricultural Mechanization (SMAM) provides up to 50% financial assistance for purchasing equipment and setting up Custom Hiring Centres to improve small farmers' access to machinery. Similarly, China has achieved a 72% mechanization rate in crop cultivation and harvesting, reflecting a global push toward automation. Advanced off-highway agricultural vehicles, including tractors, harvesters, and autonomous planting systems, are needed to improve efficiency, increase yields, and reduce costs. This shift is supporting demand for mechanization, shaping the future of the agricultural equipment market.

High initial costs and strict emission regulations remain key challenges in the off-highway vehicle market. For instance, the European Union's Stage V emission standards impose stringent limits on particulate matter and NOx emissions for non-road mobile machinery, increasing compliance costs for manufacturers. The U.S. Environmental Protection Agency's (EPA) Tier 4 regulations require advanced exhaust after-treatment systems, adding to equipment costs. Additionally, the transition to electric and hybrid powertrains demands significant investment in R&D and infrastructure, further raising initial expenses.

## Global Off-highway Vehicles Market Report Segmentation

This report forecasts revenue growth at global, regional, and country levels and provides an analysis of the latest industry trends in each of the sub-segments from 2018 to 2030. For this study, Grand View Research has segmented the global off-highway vehicles market report based on type, propulsion type, and region.

Type Outlook (Revenue, USD Million, 2018 - 2030)

Construction

Up to 250 HP

250-500 HP

More than 500 HP

Mining

\$500 HP

500-2000 HP

\$2000 HP

Agriculture

Less than 40 HP

Up to 100 HP

More than 100 HP

Propulsion Type Outlook (Revenue, USD Million, 2018 - 2030)

ICE

Electric

Regional Outlook (Revenue, USD Million, 2018 - 2030)

North America

U.S.

Canada

Mexico

Europe

U.K.

Germany

France

Asia Pacific

China

India

Japan

South Korea

Latin America

Brazil

Middle East & Africa (MEA)

UAE

Kingdom of Saudi Arabia (KSA)

South Africa

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