

Autonomous Trucks Market Size, Share & Trends Analysis Report By Propulsion (Diesel, Electric, Hybrid), By Vehicle Type, By Level Of Autonomy, By Sensor Type (Camera, Radar, Lidar, Ultrasonic), By Application, By ADAS Feature, By Region And Segment Forecasts, 2026 - 2033

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Abstracts

Summary

The global autonomous trucks market size was estimated at USD 46.77 billion in 2025 and is projected to reach USD 139.49 billion by 2033, growing at a CAGR of 14.8% from 2026 to 2033. The increasing driver shortages, rapid advancements in AI and sensor technologies, and rising demand for cost-efficient logistics in e-commerce and freight transportation drive this growth.

The increasing need to reduce operating costs, enhance road safety, and address driver shortages using advanced automation technologies is significantly driving the autonomous truck industry. Rapid advancements in AI, sensor technology, and vehicle connectivity shape the current market state. Logistics and freight companies are increasingly seeking automated solutions to enhance efficiency, safety, and overall productivity as road freight volumes continue rising globally. Market participants invest heavily in AI-powered driving systems, real-time data processing, and integrated vehicle-to-everything (V2X) communication to enable trucks to operate with minimal human intervention. The ongoing shortage of qualified drivers and high labor costs further motivate industry stakeholders to accelerate the adoption of autonomous trucking technology, thereby driving autonomous truck industry growth.

Furthermore, heightened demand for faster and more cost-effective long-haul logistics encourages expanded use of autonomous trucks, especially as e-commerce and just-in-time delivery requirements intensify. Regulatory support in multiple regions helps establish frameworks for safe testing and operation of driverless freight vehicles, which gives industry players more confidence to scale solutions. Faster improvements in AI algorithms, cloud-based fleet management, and advances in sensor fusion continue to reduce technical barriers related to navigation, obstacle detection, and reliable long-distance operation. The development of Level 4 and Level 5 autonomous platforms signals growing readiness for limited human intervention and fully driverless transport solutions.

Moreover, the use of real-time data analytics, cloud-based fleet management platforms, and predictive maintenance solutions enables companies to optimize vehicle uptime and overall fleet efficiency. Ethical AI deployment, cybersecurity, and compliance with new safety regulations are growing areas of focus, ensuring that technological progress aligns with industry standards and public trust. As logistics providers and manufacturers work together to refine operational models, autonomous trucks are expected to play a key role in reshaping the freight and transportation landscape through improved reliability, cost efficiency, and enhanced service offerings. These factors are expected to drive the growth of the autonomous truck industry in the coming years.

Global Autonomous Trucks 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 2021 to 2033. For this study, Grand View Research has segmented the global autonomous truck market report based on propulsion, vehicle type, sensor type, application, ADAS feature, level of autonomy, and region:

Propulsion Outlook (Revenue, USD Million, 2021 - 2033)

Diesel

Electric

Hybrid

Vehicle Type Outlook (Revenue, USD Million, 2021 - 2033)

Light Duty Truck

Medium Duty Truck

Heavy Duty Truck

Sensor Type Outlook (Revenue, USD Million, 2021 - 2033)

Camera

Radar

Lidar

Ultrasonic

Others

Application Outlook (Revenue, USD Million, 2021 - 2033)

Last Mile Delivery Truck

Mining Truck

Shuttles

ADAS Feature Outlook (Revenue, USD Million, 2021 - 2033)

Adaptive Cruise Control (ACC)

Automatic Emergency Braking (AEB)

Blind Spot Detection (BSD)

Intelligent Park Assist (IPA)

Lane Keep Assist (LKA)

Traffic Jam Assist (TJA)

Highway Pilot (HP)

Others

Level of Autonomy Outlook (Revenue, USD Million, 2021 - 2033)

L1

L2 & L3

L4

L5

Regional Outlook (Revenue, USD Million, 2021 - 2033)

North America

U.S.

Canada

Mexico

Europe

Germany

UK

France

Asia Pacific

China

Japan

India

South Korea

Australia

Latin America

Brazil

Middle East and Africa (MEA)

UAE

KSA

South Africa

This report can be delivered to the clients within 8 Business Days

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