

Autonomous Truck Market – Global Industry Size, Share, Trends, Opportunity, and Forecast Segmented By Vehicle Type (Light-Duty Truck, Medium-Duty Truck and Heavy-Duty Truck), By Propulsion Type (ICE, Electric), By Component Type (Lidar, Radar, Camera, and Sensors), By Level of Autonomy (Semi-Autonomous, Fully Autonomous), By Region & Competition, 2021-2031F

<https://marketpublishers.com/r/A4E59D74F2A6EN.html>

Date: January 2026

Pages: 182

Price: US\$ 4,500.00 (Single User License)

ID: A4E59D74F2A6EN

Abstracts

The Global Autonomous Truck Market will grow from USD 21.18 Billion in 2025 to USD 32.11 Billion by 2031 at a 7.18% CAGR. Autonomous trucks are commercial vehicles equipped with advanced sensor systems and artificial intelligence that enable them to navigate and transport goods with reduced or zero human intervention.

Key Market Drivers

The rapid growth of the freight transportation sector constitutes a primary driver for the Global Autonomous Truck Market, fueled by escalating goods volume that demands logistics capacities beyond human-centric limits. As global supply chains expand to accommodate surges in e-commerce, the imperative to move freight efficiently has necessitated the integration of automated systems capable of continuous operation. This intense demand is highlighted by recent industrial projections tracking the trajectory of cargo movement.

Key Market Challenges

The most critical impediment restricting the Global Autonomous Truck Market is the absence of a unified regulatory framework governing liability and safety standards. This legislative void creates substantial risk for original equipment manufacturers and software developers, who face undefined accountability in the event of technical failures or accidents. Without clear federal guidelines, insurance entities are unable to calculate risk premiums accurately, causing fleet operators to hesitate in deploying capital toward driverless technology.

Key Market Trends

The convergence of autonomous driving systems with electric powertrains is reshaping the market by coupling labor efficiency with critical decarbonization objectives. Unlike traditional diesel long-haul models, this trend integrates zero-emission platforms with driverless technology to optimize sustainable logistics networks, particularly in short-haul loops where automated scheduling mitigates range limitations.

Key Market Players

AB Volvo

Mercedes Benz Group

Traton SE

TuSimple

Fabu Technology

Tesla Inc.

Paccar Inc

BYD Co. Ltd.

Einride

Embark

Report Scope:

In this report, the Global Autonomous Truck Market has been segmented into the following categories, in addition to the industry trends which have also been detailed below:

Autonomous Truck Market, By Vehicle Type:

Light-Duty Truck

Medium-Duty Truck and Heavy-Duty Truck

Autonomous Truck Market, By Propulsion Type:

ICE

Electric

Autonomous Truck Market, By Component Type:

Lidar

Radar

Camera

Sensors

Autonomous Truck Market, By Level of Autonomy:

Semi-Autonomous

Fully Autonomous

Autonomous Truck Market, By Region:

North America

United States

Canada

Mexico

Europe

France

United Kingdom

Italy

Germany

Spain

Asia Pacific

China

India

Japan

Australia

South Korea

South America

Brazil

Argentina

Colombia

Middle East & Africa

South Africa

Saudi Arabia

UAE

Competitive Landscape

Company Profiles: Detailed analysis of the major companies present in the Global Autonomous Truck Market.

Available Customizations:

Global Autonomous Truck Market report with the given market data, TechSci Research offers customizations according to a company's specific needs. The following customization options are available for the report:

Company Information

Detailed analysis and profiling of additional market players (up to five).

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