

Global L3 Autonomous Driving System for Commercial Vehicles Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global L3 Autonomous Driving System for Commercial Vehicles market size is expected to reach \$ 1129 million by 2032, rising at a market growth of 7.2% CAGR during the forecast period (2026-2032).

Level 3 autonomous driving systems for commercial vehicles refer to systems where, in specific scenarios (such as intercity highways, closed parks, and ports), vehicles can autonomously complete environmental perception, decision-making, planning, and execution control, but the driver needs to take over driving control when requested by the system. Its core feature is "human-machine co-driving," where the system undertakes the primary driving tasks while retaining human intervention authority. It is suitable for high-efficiency scenarios such as long-distance logistics, unmanned delivery, and sanitation operations. The industry's gross profit margin is approximately 40-55%.

Key market drivers primarily include the following factors:

The Need to Reduce Costs in Trunk Logistics Drives Commercial Adoption

Market growth for L3 autonomous driving systems in commercial vehicles is primarily driven by the demand for cost reduction and efficiency gains in trunk logistics, port operations, mining transport, and campus delivery. Commercial vehicles typically operate for extended periods, follow relatively fixed routes, and undergo intensive usage; consequently, autonomous driving systems can assume specific dynamic driving tasks—such as on highways, within closed campuses, or in designated operational zones—thereby alleviating driver fatigue and enhancing transportation stability. L3

represents ?conditional autonomous driving,? wherein the system can take over driving tasks under specific operational conditions; however, it still requires the driver to respond promptly when a handover request is issued. As such, L3 is ideally suited as an interim solution for commercial vehicles transitioning from Advanced Driver-Assistance Systems (ADAS) to higher levels of autonomous driving.

Enhanced Safety Management and Operational Standardization Boost the Value of System Configuration

Commercial vehicle accidents are frequently linked to prolonged driving hours, blind spot risks, driver fatigue, insufficient following distances, and complex weather or road conditions. Consequently, fleet operators face ever-increasing demands regarding safety management, driver behavior monitoring, and accident liability traceability. L3 autonomous driving systems typically integrate perception sensors, domain controllers, positioning systems, braking and steering actuators, driver monitoring capabilities, and operational data recording functions. In applicable scenarios, these systems enhance the vehicle's ability to identify and respond to lane markings, obstacles, the status of preceding vehicles, and the surrounding road environment. Furthermore, the operational data generated by the system facilitates fleet-wide safety assessments, insurance premium pricing, accident post-mortems, and regulatory compliance management?effectively elevating autonomous driving from a standalone vehicle feature to a comprehensive digital management tool for the entire fleet.

Policy Pilot Programs and ?Vehicle-Road-Cloud? Collaboration Refine Application Conditions

The widespread adoption of L3 autonomous driving in commercial vehicles is contingent upon regulatory approval, clear liability frameworks, pilot testing and demonstration projects, and the coordinated integration of road infrastructure and communication networks. In recent years, numerous regions have conducted road testing, demonstration operations, and regulatory explorations centered on intelligent connected vehicles, thereby driving the transition of autonomous driving from technological validation to commercial application within specific scenarios. Furthermore, advancements in vehicle-road collaboration, high-definition mapping, high-precision positioning, 5G/V2X connectivity, and cloud-based dispatching capabilities have established more stable external conditions for the operation of commercial vehicles on major highways, within logistics parks, at port terminals, and along fixed routes. As collaboration deepens among vehicle manufacturers, autonomous driving solution providers, logistics enterprises, and local regulatory authorities, market demand for L3

systems is poised to evolve from demonstration projects toward large-scale fleet deployment and operational services.

This report studies the global L3 Autonomous Driving System for Commercial Vehicles demand, key companies, and key regions.

This report is a detailed and comprehensive analysis of the world market for L3 Autonomous Driving System for Commercial Vehicles, and provides market size (US\$ million) and Year-over-Year (YoY) growth, considering 2025 as the base year. This report explores demand trends and competition, as well as details the characteristics of L3 Autonomous Driving System for Commercial Vehicles that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global L3 Autonomous Driving System for Commercial Vehicles total market, 2021-2032, (USD Million)

Global L3 Autonomous Driving System for Commercial Vehicles total market by region & country, CAGR, 2021-2032, (USD Million)

U.S. VS China: L3 Autonomous Driving System for Commercial Vehicles total market, key domestic companies, and share, (USD Million)

Global L3 Autonomous Driving System for Commercial Vehicles revenue by player, revenue and market share 2021-2026, (USD Million)

Global L3 Autonomous Driving System for Commercial Vehicles total market by Type, CAGR, 2021-2032, (USD Million)

Global L3 Autonomous Driving System for Commercial Vehicles total market by Application, CAGR, 2021-2032, (USD Million)

This report profiles major players in the global L3 Autonomous Driving System for Commercial Vehicles market based on the following parameters - company overview, revenue, gross margin, product portfolio, geographical presence, and key developments. Key companies covered as a part of this study include Volvo (SE), Mercedes-Benz (DE), T-Truck (CN), Cruise (US), Changan Automobile (CN), BAIC Arcfox (CN), BYD (CN), SAIC (CN), Waymo (US), Huawei (CN), etc.

This report also provides key insights about market drivers, restraints, opportunities, new product launches or approvals.

Stakeholders would have ease in decision-making through various strategy matrices

used in analyzing the world L3 Autonomous Driving System for Commercial Vehicles market

Detailed Segmentation:

Each section contains quantitative market data including market by value (US\$ Millions), by player, by regions, by Type, and by Application. Data is given for the years 2021-2032 by year with 2025 as the base year, 2026 as the estimate year, and 2027-2032 as the forecast year.

Global L3 Autonomous Driving System for Commercial Vehicles Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global L3 Autonomous Driving System for Commercial Vehicles Market, Segmentation by Type:

Pre-installed Type

Aftermarket Type

Global L3 Autonomous Driving System for Commercial Vehicles Market, Segmentation by Technology:

Multi-sensor Fusion

Pure Vision Solution

Vehicle-Road Cooperative

Global L3 Autonomous Driving System for Commercial Vehicles Market, Segmentation by Function Category:

Basic Version

Full-Scenario Version

Global L3 Autonomous Driving System for Commercial Vehicles Market, Segmentation by Application:

Mining Trucks

Transport Trucks

Others

Companies Profiled:

Volvo (SE)

Mercedes-Benz (DE)

T-Truck (CN)

Cruise (US)

Changan Automobile (CN)

BAIC Arcfox (CN)

BYD (CN)

SAIC (CN)

Waymo (US)

Huawei (CN)

Nissan (JP)

Aurora (US)

Motional (US)

Nuro (US)

Key Questions Answered

1. How big is the global L3 Autonomous Driving System for Commercial Vehicles market?
2. What is the demand of the global L3 Autonomous Driving System for Commercial Vehicles market?
3. What is the year over year growth of the global L3 Autonomous Driving System for Commercial Vehicles market?
4. What is the total value of the global L3 Autonomous Driving System for Commercial Vehicles market?
5. Who are the Major Players in the global L3 Autonomous Driving System for Commercial Vehicles market?
6. What are the growth factors driving the market demand?

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