

# Global Heavy Duty Truck Platooning Systems Supply, Demand and Key Producers, 2026-2032

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## Abstracts

The global Heavy Duty Truck Platooning Systems market size is expected to reach \$ 695 million by 2032, rising at a market growth of 18.5% CAGR during the forecast period (2026-2032).

Heavy-duty truck platooning systems are advanced technologies that enable a group of trucks to travel closely together in a convoy formation, typically with minimal spacing between vehicles, while maintaining safety and efficiency. In a platooning system, the trucks communicate with each other through wireless communication protocols such as Dedicated Short-Range Communication (DSRC) or Cellular Vehicle-to-Everything (C-V2X). Through this communication, the trucks synchronize their speed, braking, and steering, allowing them to operate as a unified unit. The lead truck, often equipped with advanced sensors and control systems, sets the pace and controls the movements of the entire platoon. The following trucks, known as followers or platoon members, adjust their speed and distance in real-time to maintain a safe and aerodynamically efficient following distance from the lead vehicle.

Upstream spans sensing/actuation interfaces, V2X modules (DSRC/802.11p/ITS-G5 or C-V2X/5G), domain controllers/gateways, cybersecurity & functional-safety software, plus antennas and harnessing. Midstream, OEMs and Tier-1/automation software providers integrate platoon control (gap policy, cooperative braking, string stability), comms/security, vehicle calibration and compliance, and cloud fleet orchestration (pairing, ops policy, OTA, data loop). Downstream buyers are long-haul fleets; value capture hinges on regulation/road permissions and scale.

Heavy-duty truck platooning systems enable two or more trucks to travel in a tightly coordinated convoy using V2V communications and cooperative longitudinal control,

with the goal of reducing aerodynamic drag and fuel consumption while improving smoothness and consistency at fleet scale. The most common deployment pathway today is Cooperative Adaptive Cruise Control, where V2V data complements forward sensing to coordinate acceleration, deceleration, and braking with more consistent spacing; drivers typically remain responsible for steering and lane keeping, while the system focuses on longitudinal automation and platoon coordination. Industry standardization is maturing as well, with SAE publishing performance requirements for CACC and platooning to align capability targets and test methodologies.

The market is moving from pilots to operational scalability, and differentiation is shifting from can platoon to can run reliably every day. Key trends include higher robustness in real traffic—cut-ins, merges, grades, mixed loads, and adverse weather—plus stronger interoperability across brands and fleets, which has been a central objective of Europe's ENSEMBLE effort. In parallel, solutions are evolving from a vehicle feature into a fleet workflow, linking platoon formation, routing, dispatch, driver operations, and energy management so benefits persist beyond controlled demonstrations.

Opportunity is strongest in high-mileage line-haul fleets, where benefits are measurable and repeatable under disciplined operations. Public evaluations consistently highlight fuel-saving potential, while also showing that results depend on speed, gap policy, platoon size, and trailer aerodynamics; U.S. ITS materials, for example, summarize fuel-savings ranges for multi-truck CACC platoons and note higher savings under tighter spacing and more aerodynamic configurations—conditions that also demand higher system capability and operational fit. For external messaging, the most credible positioning emphasizes validated fuel and CO<sub>2</sub> impact, safety-by-design exit and fallback strategies, and fleet-ready integration rather than headline claims alone.

By application and region, highway corridors are typically the first-choice deployment environment because speeds are steadier and routes are predictable, which helps maintain platoons and realize repeatable savings; fixed-route freight legs can also be attractive due to easier formation and operations control. Regionally, Europe has emphasized cross-border interoperability through multi-brand programs, the U.S. has leaned into corridor pilots and safety/interaction evaluation, and Asia-Pacific is positioned to accelerate adoption as freight intensity and connected-vehicle supply chains continue to scale.

This report studies the global Heavy Duty Truck Platooning Systems demand, key companies, and key regions.

This report is a detailed and comprehensive analysis of the world market for Heavy Duty Truck Platooning Systems, 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 Heavy Duty Truck Platooning Systems that contribute to its increasing demand across many markets.

### **Highlights and key features of the study**

Global Heavy Duty Truck Platooning Systems total market, 2021-2032, (USD Million)

Global Heavy Duty Truck Platooning Systems total market by region & country, CAGR, 2021-2032, (USD Million)

U.S. VS China: Heavy Duty Truck Platooning Systems total market, key domestic companies, and share, (USD Million)

Global Heavy Duty Truck Platooning Systems revenue by player, revenue and market share 2021-2026, (USD Million)

Global Heavy Duty Truck Platooning Systems total market by Type, CAGR, 2021-2032, (USD Million)

Global Heavy Duty Truck Platooning Systems total market by Application, CAGR, 2021-2032, (USD Million)

This report profiles major players in the global Heavy Duty Truck Platooning Systems 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 KargoBot, Trunk Technology, Pony.ai, Kratos Defense, Utopilot, Inceptio Technology, CiDi Inc., Daimler, Volvo, 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 Heavy Duty Truck Platooning Systems 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 Heavy Duty Truck Platooning Systems Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Heavy Duty Truck Platooning Systems Market, Segmentation by Type:

Product Sales

Fleet Operation

Global Heavy Duty Truck Platooning Systems Market, Segmentation by Function:

Support Function

Automated Function

Global Heavy Duty Truck Platooning Systems Market, Segmentation by Scenario:

Closed Road Scenario

Open Road Scenario

Global Heavy Duty Truck Platooning Systems Market, Segmentation by Application:

Logistics

Ports

Mining

Other

#### Companies Profiled:

KargoBot

Trunk Technology

Pony.ai

Kratos Defense

Utopilot

Inceptio Technology

CiDi Inc.

Daimler

Volvo

#### **Key Questions Answered**

1. How big is the global Heavy Duty Truck Platooning Systems market?
2. What is the demand of the global Heavy Duty Truck Platooning Systems market?
3. What is the year over year growth of the global Heavy Duty Truck Platooning Systems market?
4. What is the total value of the global Heavy Duty Truck Platooning Systems market?
5. Who are the Major Players in the global Heavy Duty Truck Platooning Systems market?
6. What are the growth factors driving the market demand?

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