

# **Semi & Fully Autonomous Truck Market - Global Industry Size, Share, Trends, Opportunity, and Forecast, 2018-2028 Segmented By ADAS Features (Adaptive Cruise Control, Automatic Emergency Braking, Blind Spot Detection, Intelligent Park Assist, Lane Assist), By Automation Level (Level 0, Level 1, Level 2, Level 3, Level 4/5), By Component (Embedded System, Camera, Radar, LiDAR, Other), By Application (Logistic, Mining, Construction), By Fuel Type (Diesel, Petrol, Gasoline, Compressed Natural Gas (CNG), Electric and Hybrid), By Regional, By Competition**

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## **Abstracts**

The Global Semi & Fully Autonomous Truck Market is expected to reach USD 954.87 million by 2028, up from USD 450 million in 2022, with a remarkable compound annual growth rate (CAGR) of 13.5%. This market is undergoing a significant transformation driven by the convergence of cutting-edge technologies and the surging demand for efficient and safe transportation solutions. It encompasses vehicles equipped with varying levels of automation, ranging from partial assistance to complete autonomy, with the aim of revolutionizing the logistics and transportation sectors.

A primary driver of this market's growth is the relentless pursuit of operational efficiency and safety enhancements. Autonomous trucks hold the potential to optimize route planning, minimize idle time, and reduce human errors, thus increasing the overall efficiency of the transportation process. These efficiency improvements translate into faster delivery times, reduced fuel consumption, and lower operational costs for fleet

owners and logistics companies.

Advancements in sensor technology and artificial intelligence play a pivotal role in enabling the autonomous capabilities of these trucks. Cutting-edge LiDAR, radar, and camera systems allow vehicles to perceive their surroundings with a high level of accuracy, enabling them to make real-time decisions and navigate complex urban and highway environments. These technological advancements have reached a point where they can offer the level of reliability necessary for safe autonomous driving, instilling confidence in the market's potential.

Furthermore, the promise of reduced labor costs is a significant incentive driving the adoption of semi and fully autonomous trucks. The shortage of truck drivers in many regions has spurred interest in autonomous solutions that can operate continuously without the limitations of human fatigue. This labor-saving potential has captured the attention of fleet operators looking to address driver shortages while maintaining operational consistency.

The market's growth is also bolstered by the environmental benefits offered by autonomous trucks. These vehicles can be programmed to operate with fuel-efficient driving strategies, leading to reduced carbon emissions and contributing to sustainability goals. Additionally, optimized route planning and reduced congestion resulting from autonomous vehicles can help alleviate traffic-related environmental issues in urban areas.

In conclusion, the Global Semi & Fully Autonomous Truck Market is on a trajectory of remarkable expansion due to the synergistic effects of operational efficiency improvements, technological advancements, labor cost reduction, and environmental considerations. As regulations evolve, technological barriers are overcome, and public acceptance increases, the landscape of autonomous trucks is set to redefine the future of transportation and logistics on a global scale.

#### Key Market Drivers:

1. **Operational Efficiency and Cost Savings:** Autonomous trucks offer the potential to optimize supply chain operations, streamline route planning, and minimize idle time, resulting in substantial cost savings for fleet operators.
2. **Safety Enhancements:** Equipped with advanced sensors and artificial intelligence, autonomous trucks can significantly reduce the risk of accidents caused by human

error, fatigue, or distraction, improving road safety.

3. **Technological Advancements:** Rapid advancements in machine learning, sensor technology, and connectivity are driving the development of more reliable and capable autonomous truck solutions.

4. **Labor Shortages and Efficiency Gaps:** Autonomous trucks can operate continuously, addressing the shortage of qualified truck drivers and ensuring a continuous flow of goods.

5. **Environmental Considerations:** Autonomous trucks can be programmed for fuel-efficient driving, reducing carbon emissions and contributing to sustainability goals.

6. **Regulatory Landscape and Acceptance:** Regulatory frameworks and public acceptance are crucial factors shaping the deployment of autonomous trucks.

7. **Economic and Industry Trends:** E-commerce growth and the need for rapid deliveries are driving the adoption of autonomous trucks to optimize last-mile and long-haul deliveries.

#### Key Market Challenges:

1. **Technological Limitations and Reliability:** Autonomous trucks face challenges in handling complex and dynamic road environments, including adverse weather conditions and unpredictable human drivers.

2. **Safety and Liability Concerns:** Defining liability in accidents involving autonomous trucks is a complex challenge, particularly when multiple factors are involved.

3. **Regulatory Framework and Standardization:** Lack of standardized regulations for autonomous vehicles hinders global deployment and coordination.

4. **Infrastructure Readiness:** Autonomous trucks require advanced infrastructure, including high-definition mapping and communication systems, which may not be readily available.

5. **Human Interaction and Acceptance:** Developing effective communication methods between autonomous trucks and pedestrians or other drivers is a challenge, as is gaining public trust.

6. **Cybersecurity Vulnerabilities:** Connected autonomous vehicles are vulnerable to cyberattacks, necessitating robust cybersecurity measures.
7. **Ethical and Moral Dilemmas:** Autonomous systems may face ethical dilemmas in critical situations, requiring guidelines and cultural considerations.
8. **Transition Period and Mixed Traffic:** Managing the interaction between autonomous and human-driven vehicles during the transition period poses challenges.
9. **High Costs and ROI Uncertainty:** Developing and integrating autonomous technology comes with substantial costs, and achieving a clear return on investment remains uncertain for some stakeholders.
10. **Skilled Workforce and Training:** Developing a skilled workforce proficient in autonomous technology is essential but presents challenges in recruitment and training.

#### Key Market Trends:

1. **Gradual Evolution towards Full Autonomy:** The market is progressing step by step, focusing on Level 2 and Level 3 automation before achieving full autonomy.
2. **Collaboration and Partnerships:** Manufacturers are collaborating with technology companies, competitors, and stakeholders to accelerate the development of autonomous technology.
3. **Data-Driven Decision Making:** Data collected by autonomous trucks is crucial for refining algorithms, improving vehicle performance, and enhancing safety.
4. **Advanced Sensor Technology:** Continuous advancements in sensors, including LiDAR, radar, and cameras, enhance a vehicle's perception and safety.
5. **Development of Smart Infrastructure:** Infrastructure such as high-definition mapping and vehicle-to-infrastructure systems supports autonomous trucks.
6. **Regulatory Framework Advancements:** Governments are adapting regulatory frameworks to balance safety and innovation.

7. Shift in Business Models: Autonomous trucks are prompting changes in traditional business models in the transportation and logistics sectors.

8. Last-Mile Delivery Innovation: Autonomous trucks influence last-mile delivery strategies, with smaller autonomous vehicles and drones being explored.

9. Integration with Electric and Alternative Fuel Vehicles: Autonomous technology is combined with eco-friendly vehicles for sustainability.

10. Public Perception and Education: Stakeholders invest in education campaigns to increase public understanding and acceptance of autonomous technology.

#### Regional Insights:

- North America: The market is driven by advancements in autonomous technology, government support, and the presence of leading autonomous vehicle companies.

- Europe: Robust investments in infrastructure and a supportive regulatory landscape promote the adoption of autonomous vehicles.

- Asia-Pacific: Burgeoning logistics demands and a tech-savvy population contribute to market growth, with regulatory hurdles and infrastructure development as challenges.

#### Key Market Players

Robert Bosch GmbH

Continental AG

Denso Corporation

Aptiv PLC

ZF Friedrichshafen AG

NXP Semiconductors N.V.

Nvidia Corporation

Daimler

Qualcomm

AB Volvo

Report Scope:

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

Semi & Fully Autonomous Truck Market, By ADAS Features:

Adaptive Cruise Control

Automatic Emergency Braking

Blind Spot Detection

Intelligent Park Assist

Lane Assist

Semi & Fully Autonomous Truck Market, By Automation Level:

Level 0

Level 1

Level 2

Level 3

Level 4/5

Semi & Fully Autonomous Truck Market, By Component:

Embedded System

Camera

Radar

LiDAR

Other

#### Semi & Fully Autonomous Truck Market, By Application:

Logistic

Mining

Construction

#### Semi & Fully Autonomous Truck Market, By Fuel Type:

Diesel

Petrol

Gasoline

Compressed Natural Gas (CNG)

Electric and Hybrid

#### Semi & Fully Autonomous Truck Market, By Region:

North America

United States

Canada

Mexico

## Europe & CIS

Germany

Spain

France

Russia

Italy

United Kingdom

Belgium

## Asia-Pacific

China

India

Japan

Indonesia

Thailand

Australia

South Korea

## South America

Brazil

Argentina

Colombia



## Middle East & Africa

Turkey

Iran

Saudi Arabia

UAE

## Competitive Landscape

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

## Available Customizations:

Global Semi & Fully Autonomous Truck Market report with the given market data, Tech Sci 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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14.1.3.4. Recent Developments

14.1.3.5. Key Management Personnel

#### 14.1.4. Aptiv PLC

14.1.4.1. Company Details

14.1.4.2. Key Product Offered

14.1.4.3. Financials (As Per Availability)

14.1.4.4. Recent Developments

14.1.4.5. Key Management Personnel

#### 14.1.5. ZF Friedrichshafen AG

14.1.5.1. Company Details

14.1.5.2. Key Product Offered

14.1.5.3. Financials (As Per Availability)

14.1.5.4. Recent Developments

14.1.5.5. Key Management Personnel

#### 14.1.6. NXP Semiconductors N.V.

14.1.6.1. Company Details

14.1.6.2. Key Product Offered

14.1.6.3. Financials (As Per Availability)

- 14.1.6.4. Recent Developments
- 14.1.6.5. Key Management Personnel
- 14.1.7. Nvidia Corporation
  - 14.1.7.1. Company Details
  - 14.1.7.2. Key Product Offered
  - 14.1.7.3. Financials (As Per Availability)
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- 14.1.8. Daimler
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  - 14.1.8.2. Key Product Offered
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  - 14.1.9.3. Financials (As Per Availability)
  - 14.1.9.4. Recent Developments
  - 14.1.9.5. Key Management Personnel
- 14.1.10. AB Volvo
  - 14.1.10.1. Company Details
  - 14.1.10.2. Key Product Offered
  - 14.1.10.3. Financials (As Per Availability)
  - 14.1.10.4. Recent Developments
  - 14.1.10.5. Key Management Personnel

## **15. STRATEGIC RECOMMENDATIONS**

- 15.1. Key Focus Areas
  - 15.1.1. Target Regions
  - 15.1.2. Target ADAS Features
  - 15.1.3. Target Automation Level

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