

Autonomous Logistics Vehicles Market By Automation Level (Level-3, Level-4, Level-5) , By Application (Civil, Robo-Taxi, Ride-Share, Ride-Hail, Self-Driving Truck, Self-Driving Bus) By Component (Hardware, Software, Service) : Global Opportunity Analysis and Industry Forecast, 2024-2033

<https://marketpublishers.com/r/A3237218A3C3EN.html>

Date: July 2024

Pages: 250

Price: US\$ 2,790.00 (Single User License)

ID: A3237218A3C3EN

Abstracts

Autonomous Logistics Vehicles Market

The autonomous logistics vehicles market was valued at \$45.0 billion in 2023 and is projected to reach \$87.6 billion by 2033, growing at a CAGR of 7% from 2024 to 2033.

Autonomous logistics vehicle is a self-driving automobile used to transport goods to different locations with no human intervention. Various vehicles belong to the category of autonomous logistics vehicles, including trucks, robots, trains, and even airplanes. The key benefits of using autonomous vehicles for logistics are efficiency, low costs, and high performance. These vehicles make use of ML technology to detect the possible hurdles, follow traffic signals, and perceive the climatic conditions.

Advancement in technology is a key factor responsible for the growth of the autonomous logistics vehicles market. In addition, with increasing popularity of e-commerce and rising demand for instant delivery, the adoption of autonomous logistics vehicles is boosting substantially. Furthermore, autonomous vehicles operate through route optimization, reducing the consumption of fuel and reducing the environmental impact. The development of smart infrastructure is anticipated to be a significant

futuristic trend poised to transform the landscape of autonomous logistics vehicles. Smart infrastructure is projected to comprise of connected traffic signals, intelligent roadways, and multiple maintenance facilities. This is expected to enhance the safety, productivity, and efficacy of autonomous vehicles in the future.

However, the technology for autonomous logistics vehicles is currently at a developing stage, which requires huge expenses for R&D and manufacturing. This limits the adoption of autonomous logistics technology in developed regions, constraining the growth of the market. Contrarily, the future of the autonomous logistics vehicles market looks optimistic due to its promising potential. According to the autonomous vehicles statistics by G2, a software marketplace, self-driving trucks are projected to reduce the costs for logistics by 45%, which approximate \$300 billion every year. Furthermore, the use of autonomous vehicles is expected to reduce the prevalence of traffic accidents by 90% by 2040. These figures indicate widespread expansion of autonomous logistics vehicles in the future.

Segment Review

The autonomous logistics vehicles market is segmented into automation level, application, component, and region. On the basis of automation level, the market is divided into level-3, level-4, and level-5. As per application, it is classified into civil, robo-taxi, ride-share, ride-hail, self-driving truck, and self-driving bus. Depending on component, it is categorized into hardware, software, service. Region wise, it is analyzed across North America, Europe, Asia-Pacific, and LAMEA.

Key Findings

On the basis of automation level, the level-3 segment dominated the market in 2023.

As per application, the self-driving truck segment was the highest shareholder in 2023.

Depending on component, the software segment acquired a high stake in the market in 2023.

Region wise, North America was the highest revenue generator in 2023.

Competition Analysis

The leading players operating in the global autonomous logistics vehicles market

include Ri%li%Tinto, Caterpillar Inc., Komatsu, Westwell, UISEE, Dematic, Daifuku Co., Ltd., Siasun Robot & Automation Co., Ltd., Meidensha Corporation, Toyota Motor Corporation, Swisslog, CSG Systems, Inc., Beijing Idriverplus Technology Co., Ltd., Neolix, JD.Com, Cruise LLC, Enride, Gatik, Inc., Nuro, Inc., Starship Technologies, Tesla, Waym%li%LLC, and Yandex. These major players have adopted various key development strategies such as business expansion, new product launches, and partnerships, t%li%strengthen their foothold in the competitive market.

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Investment Opportunities

New Product Development/ Product Matrix of Key Players

Market share analysis of players at global/region/country level

Key Market Segments

By Automation Level

Level-3

Level-4

Level-5

By Application

Civil

Robo-Taxi

Ride-Share

Ride-Hail

Self-Driving Truck

Self-Driving Bus

By Component

Hardware

Software

Service

By Region

North America

U.S.

Canada

Mexico

Europe

France

Germany

Italy

Spain

UK

Russia

Rest of Europe

Asia-Pacific

China

Japan

India

South Korea

Australia

Thailand

Malaysia

Indonesia

Rest of Asia-Pacific

LAMEA

Brazil

South Africa

Saudi Arabia

UAE

Argentina

Rest of LAMEA

Key Market Players

Ri%li%Tinto

Caterpillar Inc.

Komatsu

Westwell

UISEE

Dematic

Daifuku Co., Ltd.

Siasun Robot & Automation Co., Ltd.

Meidensha Corporation

Toyota Motor Corporation

Swisslog

CSG Systems, Inc.

Beijing Idriverplus Technology Co., Ltd.

Neolix

JD.Com

Cruise LLC

Enride

Gatik, Inc.

Nuro, Inc.

Starship Technologies

Tesla

Waym%li%LLC

Yandex

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