

# **Autonomous Train Market– By Train Type (Suburban Trains, Monorail, Subway/Metro and Long-Distance Trains), By Technology (Automatic Train Control (ATC), Communication-Based Train Control (CBTC), European Railway Traffic Management System (ERTMS) and Positive Train Control (PTC)), By Application (Passenger Train, Freight and Mining), By Infrastructure Type (Dedicated Tracks, Shared Tracks, Hybrid Tracks and Virtual Tracks -Global Opportunity Analysis and Industry Forecast, 2025–2030**

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## **Abstracts**

### **Autonomous Trains Market Overview**

The global Autonomous Train Market size was valued at USD 11.04 billion in 2024 and is predicted to reach USD 15.47 billion by 2030 with a CAGR of 5.8% from 2025-2030.

The industry of autonomous train is driven by factors such as expansion in urbanization, rise in government investment for developing railway infrastructure, and surge in developmental strategies adopted by primary market players. However, the high upfront cost hinders the expansion of the market.

Conversely, the integration of smart rail networks present a significant market opportunity. In addition, the market players such as Alstom SA, Siemens Mobility, and others are implementing different developmental strategies to consolidate their place in the market.

## Urbanization Expansion Drives the Development of the Market

Urbanization is largely propelling the growth of the autonomous train industry, as urban populations grow the demand increases for effective and efficient means of transportation to ease congestion and enhance public transportation systems. Autonomous trains provide a quicker, secure, and cleaner mode of transport, overcoming the issues presented by high-density urban regions. According to the statistics released by the Our World in Data, 4.61 billion of world population were living in urban communities during 2023. As the cities grow, autonomous trains offer a sustainable option to upgrade public transportation systems, increase safety, and lower operation costs, ultimately leading to more environmentally friendly urban transportation.

## Rising Government Investment in Development of Railway Infrastructure Propels Market Growth

The increased government investment in railway infrastructure by various nations globally further drives the market growth by offering the proper funding to implement and develop autonomous train technology on existing tracks, contributing a supportive atmosphere for innovation of these advanced trains technologies. For instance, the U.S. Department of Transportation revealed over USD 2.4 billion in funding for 122 rail projects across 41 states. Likewise, in India the Union Budget 2023-24 had allocated a capital outlay of approximately USD 29 billion to the Ministry of Railways, a record high level of investment and nearly nine times that granted in 2013-14. With governments investment to modernize rail networks, the inclusion of autonomous technologies remains central, thereby driving market expansion.

## Innovative Initiatives Adopted by Primary Companies Drives Market Expansion

The rise in innovative strategies adopted by primary companies involved in this industry expands the market growth by bringing up latest advanced technologies that demonstrates a concrete step towards wider adoption of automated train technology on existing rail networks. For example, in September 2024, Alstom developed the ARTE (Autonomous Regional Train Evolution) project that is set to support the digitalization of the Canadian rail network through implementing automated train operations without the need for additional trackside equipment. Similarly, in January 2024, Siemens Mobility completed transitioning Paris Metro to fully driverless operation under Grade of Automation 4 (GoA4). The automation process started with four trains operating in

driverless mode alongside manually-driven trains. This initiative advances the technologies involved in it, thereby driving the autonomous train market growth.

### High Initial Investment Hinders the Growth of the Market

High upfront investment is a major hindrance to the expansion of the autonomous train market. The investment needed in refurbishing current railway networks with more sophisticated automation technologies is high, thus serving as an entry barrier for developing countries.

### Integration of Smart Rail Networks Provides Future Opportunities

The integration of intelligent rail networks offers a major market opportunity by allowing for greater operational efficiency, ultimately resulting in improved connectivity and more sustainable transportation systems in urban and intercity regions.

### Market Segmentations and Scope of the Study

The autonomous train market report is segmented on the basis of train type, automation grade, technology, infrastructure type, application, and region. Based on application the market is divided into suburban trains, monorail, subway/metro, and long-distance trains. On the basis of automation grade the industry is divided into GoA 1, GoA 2, GoA 3, and GoA 4. Based on technology the market is segmented into, automatic train control (ATC), communication-based train control (CBTC), European railway traffic management system (ERTMS), and positive train control (PTC). Based on infrastructure type the market is divided into, dedicated tracks, shared tracks, hybrid tracks, and virtual tracks. By application the market is divided into, passenger train, freight train, mining train. The regional breakdown includes region such as North America, Europe, Asia-Pacific, and Rest of the world.

### Geographical Analysis

Asia-Pacific region leads the autonomous train market share and is projected to continue doing so throughout the forecast period. The developmental strategies adopted by the market players present in the region drives the expansion of the industry by adding up latest technologies into the autonomous rail systems. For example, in January 2025, Titagarh Rail introduced India's first driverless Make-in-India trainset to Bengaluru Metro. Such advancement highlights the regions progress in urban mobility thereby driving market growth.

Additionally, increase in urbanization across the region also drives the growth of the market further as more efficient, high-capacity public transport systems such as self-driving trains in densely populated metropolitan areas are in demand. According to the most recent statistics released by the Central Intelligence Agency, 64.6% of the entire population of China lived in cities in 2023. With growing cities and greater population densities, the autonomous train market demand for effective, high-density public transport networks grows significantly.

Conversely, North America is demonstrating a consistent expansion in the market and is anticipated to continue doing the same in the forecast period. This is attributed to the adoption of development strategies by government of the region that signify a major step towards the extensive application of automated train systems in existing railway networks. In January 2025, The Federal Railroad Administration (FRA) of the U.S. authorized the Parallel Systems autonomous train test program. Such surge in innovative initiatives drive market expansion by advancing various technologies into the rail systems.

In addition, the increased government investment in railway infrastructure is also boosting the market growth in the region by investing in efficient of rail networks. For example, the Canadian government spent USD 22.1 million on different railway infrastructure developments during 2025. The spending not only helps in the upgrading of current rail networks but also facilitates the integration of innovative technologies including autonomous train systems.

### Competitive Landscape

The autonomous train industry comprises of various key players such as Siemens Mobility, Alstom, Hitachi Rail, Thales Group, Mitsubishi Heavy Industries, Hyundai Rotem, Kawasaki Heavy Industries, Wabtec Corporation, CAF, China Railway Rolling Stock Corporation, Stadler Rail, OTIV, Infotrans, DB Cargo AG, INGLETEAM, and others. These companies are adopting various strategies including partnership and business expansion to stay competitive and maintain their market positions.

For example, Alstom secured a contract to supply fifteen additional automated metro trainsets in January 2025, enhancing the fleet to a total of 42 trains. These trains will feature the Urbalis Fluence signaling system, improving efficiency and passenger experience.

Further, in August 2023, Siemens Mobility collaborated with OBB to advance the digitization of the rail network of Austria by adopting the European Train Control System Level 2. The purpose of this program is to double the capacity of the rail network by 2040, and increasing the foundation for autonomous driving at optimal speed.

### Key Benefits

The autonomous train market report provides the quantitative analysis of the current market and estimations from 2025 to 2030. This analysis assists in identifying the prevailing market opportunities to capitalize on.

The study comprises of a detailed analysis of the current and future autonomous train market trends for depicting the prevalent investment pockets in the industry.

The information related to key drivers, restraints, and opportunities and their impact on the autonomous train market is provided in the report.

The competitive analysis of the market players along with their market share in the autonomous train market is mentioned.

The SWOT analysis and Porter's Five Forces model are elaborated in the study.

The value chain analysis in the market study provides a clear picture of the stakeholders' roles.

### Autonomous Train Market Key Segments

#### By Train Type

Suburban Trains

Monorail

Subway/Metro

Long-Distance Trains

## By Automation Grade

GoA 1

GoA 2

GoA 3

GoA 4

## By Technology

Automatic Train Control (ATC)

Communication-Based Train Control (CBTC)

European Railway Traffic Management System (ERTMS)

Positive Train Control (PTC)

## By Infrastructure Type

Dedicated Tracks

Shared Tracks

Hybrid Tracks

Virtual Tracks

## By Application

Passenger Train

Freight Train

Mining Train

## Key Players

Siemens Mobility

Alstom

Hitachi Rail

Thales Group

Mitsubishi Heavy Industries

Hyundai Rotem

Kawasaki Heavy Industries

Wabtec Corporation

CAF

China Railway Rolling Stock Corporation

Stadler Rail

OTIV

Infotrans

DB Cargo AG

INGETEA

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