

Global Autonomous Trains Market 2020-2030 by Component, Level of Automation (GoA 1, GoA 2, GoA3, GoA4), Technology (CBTC, ETRMS, ATC, PTC), Train Type, Application (Passenger, Freight) and Region: Trend Forecast and Growth Opportunity

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Abstracts

Global autonomous trains market will reach \$16.59 billion by 2030, growing by a revised 2020-2030 CAGR of 8.8% by sales revenue and 4.8% by sales units driven by urban population growth, increased comfort and safety concerns, increased budget allocations for the development of railway systems and infrastructure, and continuous research and development in the automation technology.

Highlighted with 102 tables and 84 figures, this 186-page report “Global Autonomous Trains Market 2020-2030 by Component, Level of Automation (GoA 1, GoA 2, GoA3, GoA4), Technology (CBTC, ETRMS, ATC, PTC), Train Type, Application (Passenger, Freight) and Region: Trend Forecast and Growth Opportunity” is based on a comprehensive research of the entire global autonomous trains market and all its sub-segments through extensively detailed classifications. Profound analysis and assessment are generated from premium primary and secondary information sources with inputs derived from industry professionals across the value chain. The report is based on studies on 2015-2020 and provides forecast from 2021 till 2030 with 2020 as the base year. (Please note: The report will be updated before delivery so that the latest historical year is the base year and the forecast covers at least 5 years over the base year.)

In-depth qualitative analyses include identification and investigation of the following aspects:

Market Structure

Growth Drivers

Restraints and Challenges

Emerging Product Trends & Market Opportunities

Porter's Fiver Forces

The trend and outlook of global market is forecast in optimistic, balanced, and conservative view by taking into account of COVID-19. The balanced (most likely) projection is used to quantify global autonomous trains market in every aspect of the classification from perspectives of Component, Level of Automation, Technology, Train Type, Application, and Region.

Based on Component, the global market is segmented into the following sub-markets with annual revenue (\$ mn) for 2020-2030 included in each section.

Optical Sensor & Camera

Radio Set

Accelerometer

LiDAR Module

Odometer

Tachometer

Other Components

Based on Level of Automation, the global market is segmented into the following sub-markets with annual revenue (\$ mn) for 2020-2030 included in each section.

Grade of Automation 1 (GoA 1)

Grade of Automation 2 (GoA 2)

Grade of Automation 3 (GoA 3)

Grade of Automation 4 (GoA 4)

Based on Technology, the global market is segmented into the following sub-markets with annual revenue (\$ mn) for 2020-2030 included in each section.

Communication-based Train Control (CBTC)

European Railway Traffic Management System (ETRMS)

Automatic Train Control (ATC)

Positive Train Control (PTC)

Based on Train Type, the global market is segmented into the following sub-markets with annual revenue (\$ mn) for 2020-2030 included in each section.

Long Distance Trains

Suburban Trains

Trams

Monorail

Subway/Metro

Based on Application, the global market is segmented into the following sub-markets with annual revenue (\$ mn) for 2020-2030 included in each section.

Passenger Trains

Freight Trains

Geographically, the following regions together with the listed national/local markets are fully investigated:

APAC (Japan, China, South Korea, Australia, India, and Rest of APAC; Rest of APAC is further segmented into Malaysia, Singapore, Indonesia, Thailand, New Zealand, Vietnam, Taiwan, and Philippines)

Europe (Germany, UK, France, Spain, Italy, Russia, Rest of Europe; Rest of Europe is further segmented into Netherlands, Switzerland, Turkey, Poland, Sweden, Belgium, Austria, Ireland, Norway, Denmark, and Finland)

North America (U.S., Canada, and Mexico)

South America (Brazil, Chile, Argentina, Rest of South America)

MEA (UAE, Saudi Arabia, South Africa)

For each aforementioned region and country, detailed analysis and data for annual revenue (\$ mn) are available for 2020-2030. The breakdown of all regional markets by country and split of key national markets by Component, Level of Automation, and Technology over the forecast years are also included.

The report also covers current competitive scenario and the predicted trend; and profiles key vendors including market leaders and important emerging players.

Specifically, potential risks associated with investing in global autonomous trains market are assayed quantitatively and qualitatively through GMD's Risk Assessment System. According to the risk analysis and evaluation, Critical Success Factors (CSFs) are generated as a guidance to help investors & stockholders identify emerging opportunities, manage and minimize the risks, develop appropriate business models, and make wise strategies and decisions.

Key Players (this may not be a complete list and extra companies can be added upon request):

ABB Ltd.
Alstom S.A.
Ansaldo STS
Bombardier Transportation
CRRC Transportation
General Electric
Hitachi Ltd.
Kawasaki Heavy Industries
Mitsubishi Heavy Industries
Siemens AG.
Thales Group.

(Please note: The report will be updated before delivery so that the latest historical year is the base year and the forecast covers at least 5 years over the base year.)

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