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South & Central America Rolling Stock Management Market Forecast to 2028 - Regional Analysis - by Management Type (Rail Management and Infrastructure Management) and Maintenance Service (Corrective Maintenance, Preventive Maintenance, and Predictive Maintenance)

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Abstracts

The South & Central America rolling stock management market was valued at US$ 2,316.04 million in 2022 and is expected to reach US$ 2,958.24 million by 2028; it is estimated to grow at a CAGR of 4.2% from 2022 to 2028.
Integration of 5G and IoT in Rolling Stock Management System fuel the South & Central America Rolling Stock Management Market
The use of 5G in the rolling stock management provides higher bandwidth for the data transmission between the rolling stock and authorities engaged in its management. It also improves train-to-ground communications and helps the operators make better decisions regarding the action needed to maintain the reliable operation of the rolling stock. The capability of the 5G allows the rolling stock and the operator to gain real-time connectivity for the ticketing services, travel information, and IoT-based maintenance data collection for engineering staff. The IoT-based devices in the rolling stock management system improve the operator efficiency to better manage and control the rolling stock. For example, the IoT-based sensor attached to the rolling stock carriage can detect unusual activity, providing early alerts to the operator and authorities regarding potential component failure. IoT-based devices collect real-time information about the rolling stock and help the operator to better plan and manage the preventative maintenance cycles to reduce the consequence of component failure. This factor improves the performance and lifespan of the rolling stock and further contributes to the overall security of the passengers and cargo activities. Thus, the integration of

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advanced technologies such as 5G and IoT with rolling stock and its management system is likely to create a lucrative opportunity for the South & Central America rolling stock management market growth in the coming years.

South & Central America Rolling Stock Management Market Overview

Countries in South & Central America, such as Argentina, Brazil, Chile, and Peru, invested heavily in railway infrastructure in 2020. The rail network in South & Central America consists of passenger services, freight transportation, modernization, and investment in rail infrastructure. The government of in South & Central America are increasing the railway routes, stations, and infrastructures. For instance, in September 2021, Brazil launched two new railway projects worth US$ 519.3 million. As the number of railways or rail stations increases, the infrastructure of the rail industry in South & Central America will increase. Such projects will boost the maintenance services of rolling stock management. Therefore, with the increasing demand for rolling stock maintenance services, the rolling stock management market is growing.

South & Central America Rolling Stock Management Market Revenue and Forecast to 2028 (US$ Million)

South & Central America Rolling Stock Management Market Segmentation

The South & Central America rolling stock management market is segmented based on management type, maintenance service, and country. Based on management type, the South & Central America rolling stock management market is bifurcated into rail management and infrastructure management. The rail management segment held a larger market share in 2022. The rail management segment is further subsegmented into remote diagnostic management, wayside management, train management, asset management, cab advisory, and others. Additionally, the infrastructure management segment is categorized into control room management, station management, automatic fare collection management, and others.

Based on maintenance service, the South & Central America rolling stock management market is segmented into corrective maintenance, preventive maintenance, and predictive maintenance. The corrective maintenance segment held the largest market share in 2022.

Based on country, the South & Central America rolling stock management market is segmented into Brazil, Argentina, and the Rest of South & Central America. Brazil dominated the South & Central America rolling stock management market share in 2022.

Alstom SA, ABB Ltd, Mitsubishi Electric Corp, Siemens Mobility GmbH, Talgo SA, Thales SA, Toshiba Infrastructure Systems and Solutions Corp, and Trimble Inc. are some of the leading companies operating in the South & Central America rolling stock management market.

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