

# **Asia Pacific 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 Asia Pacific rolling stock management market was valued at US\$ 16,093.90 million in 2022 and is expected to reach US\$ 24,185.59 million by 2028; it is estimated to grow at a CAGR of 7.0% from 2022 to 2028.

Integration of 5G and IoT in Rolling Stock Management System fuel the Asia Pacific 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

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

#### Asia Pacific Rolling Stock Management Market Overview

Governments of countries in Asia Pacific are investing heavily in rail infrastructure as the passenger traffic in the region is increasing. Southeast Asian countries are refocusing on rail development to boost growth, enhance regional integration, and keep up with rapid urbanization. The Indian railway system is interpreted as the foundation of the economy. India's railway network is acknowledged as one of the largest railway systems in the world. Many companies are taking initiatives to modernize Indian railways. For instance, in March 2022, Wabtec Corporation signed a contract with the Central Organization to modernize workshops on Indian railways for its online monitoring of the rolling stock management project. Indian railways are deploying digital solutions to modernize operations and improve efficiency across its rail network. Such contracts will streamline the operations of Indian Railways by automating the inspections of bearings and wheels and providing customized maintenance to maximize the utilization of its rolling stock.

#### Asia Pacific Rolling Stock Management Market Revenue and Forecast to 2028 (US\$ Million)

#### Asia Pacific Rolling Stock Management Market Segmentation

The Asia Pacific rolling stock management market is segmented based on management type, maintenance service, and country. Based on management type, the Asia Pacific 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 Asia Pacific 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 Asia Pacific rolling stock management market is segmented into China, Japan, India, South Korea, Australia, and the Rest of Asia Pacific. China dominated the Asia Pacific rolling stock management market share in 2022.

Alstom SA, ABB Ltd, Hitachi Rail 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 Asia Pacific rolling stock

management market.

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