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South America Automated Guided Vehicle Market Forecast to 2030 – Regional Analysis – by Technology (Wired Navigation, Guide Tape Navigation, Laser Target Navigation, Magnetic Navigation, and Others), Vehicle Type (Pallet Trucks, Unit Load Carriers, Driverless Trains, Forklift Trucks, and Others), and End User (General Manufacturing, Food and Beverage, Aerospace, Retail, Healthcare, Logistics, Automotive, and Others)

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Abstracts

The South America automated guided vehicle market was valued at US$ 54.45 million in 2022 and is expected to reach US$ 120.97 million by 2030; it is estimated to grow at a CAGR of 10.5% from 2022 to 2030.

Increasing Need for Well-Managed Operations in Warehouses, Distribution, and Manufacturing Facilities fuel the South America Automated Guided Vehicle Market

Employee safety is crucial in many industries, such as metals & heavy machinery, manufacturing, logistics & warehousing, and automotive, as workers are required to perform potentially perilous tasks and operate equipment in hazardous environments. Many industries still rely on people to perform risky manual tasks such as storing, loading, unloading, and moving goods. Automated guided vehicles (AGVs) guarantee increased worker safety and accidents can be avoided to a large extent. Companies are putting more effort into increasing workplace safety to reduce accidents and downtime, which can subsequently aid in improving productivity.

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AGVs are designed to focus on safety and are equipped with lasers, cameras, and sensors that enable vehicles to operate safely with workers and with surrounding infrastructure. In May 2021, AUDI AG confirmed that it uses AGVs in its manufacturing centers as it helps plan the production process and identify which component is out of stock and which is available. It also helps carry items and supply trolleys while ensuring safety. However, a few vehicles, such as forklifts, depend on human inputs and do not provide safety features. Hence, there is always a concern that a worker can get distracted or tired, which could cause accidents. Thus, manufacturers are increasingly adopting automated guided vehicles in the facilities to avoid such issues. In addition, when personnel are replaced with AGVs, potential inaccurate workflow is reduced, resulting in increased productive and accurate output. The integration of AGV allows a continuous flow of operation with streamlined processes. Thus, the increasing need for well-managed operations in warehouses, distribution, and manufacturing facilities is propelling the South America automated guided vehicles (AGVs) market.

South America Automated Guided Vehicle Market Overview

The adoption of automated guided vehicles (AGVs) in South America is still in its early stages, but there were indications that it could grow in the coming years. South America's industries have been steadily embracing automation to improve efficiency, reduce operational costs, and enhance safety. AGVs play a crucial role in automating material handling and logistics processes, making them attractive options for companies seeking to modernize their operations. The rise of e-commerce and increased consumer demands have put pressure on businesses to optimize their warehousing and order fulfillment processes. AGVs can efficiently move goods within warehouses, leading to faster order processing and reducing the chances of human errors. As AGV technology continues to evolve, becoming more reliable and cost-effective, businesses in South America are more likely to consider its adoption. Improvements in sensors, software, and connectivity have made AGVs more suitable for a broader range of applications. In Brazil, a major South American economy, the adoption of AGVs has been gradually increasing in various sectors. For instance, large automobile manufacturers in Brazil have implemented AGVs in their production lines to optimize the movement of materials and components. AGVs are used to transport car parts from one assembly station to another, reducing cycle times and increasing overall production efficiency. Ports in Chile, Colombia, and Peru have started using AGVs to move shipping containers within their terminals. AGVs are well-suited for this task, as they can navigate through the complex environment of a port without human intervention, thereby reducing congestion and improving cargo handling speed. Therefore, the automated guided vehicle market is growing in the region.

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South America Automated Guided Vehicle Market Revenue and Forecast to 2030 (US$ Million)

South America Automated Guided Vehicle Market Segmentation

The South America automated guided vehicle market is segmented based on technology, vehicle type, end user, and country. Based on technology, the South America automated guided vehicle market is segmented into wired navigation, guide tape navigation, laser target navigation, magnetic navigation, and others. The laser target navigation segment held the largest market share in 2022.

Based on vehicle type, the South America automated guided vehicle market is segmented into pallet trucks, tow vehicle, tugger trains, forklift trucks, and others. The tow vehicle segment held the largest market share in 2022.

Based on end user, the South America automated guided vehicle market is segmented into general manufacturing, food and beverage, aerospace, retail, healthcare, logistics, automotive, and others. The logistics segment held the largest market share in 2022.

Based on country, the South America automated guided vehicle market is segmented into Brazil, Argentina, and the Rest of South America. Brazil dominated the South America automated guided vehicle market share in 2022.

Bastian Solutions LLC; Daifuku Co Ltd; Dematic Corp; Hyster-Yale Group Inc; John Bean Technologies Corp; Jungheinrich AG; Kion Group AG; Konecranes Plc; Murata Machinery Ltd; and Toyota Material Handling Inc are some of the leading players operating in the South America automated guided vehicle market.

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