

Asia Pacific 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 Asia Pacific automated guided vehicle market was valued at US\$ 1,794.60 million in 2022 and is expected to reach US\$ 5,034.69 million by 2030; it is estimated to grow at a CAGR of 13.8% from 2022 to 2030.

Technological Advancements in AGVs fuel the Asia Pacific Automated Guided Vehicle Market

Technological advancements play a crucial role in the automated guided vehicle (AGV) market. As with many industries, AGV technology continues to evolve and improve, driven by innovations. AGVs rely on various navigation methods, including laser-based systems, magnetic tape, vision-based systems, and LiDAR, to move autonomously through their environments. Advancements in navigation algorithms and sensor technologies have led to more accurate and reliable AGV movement, enabling them to precisely navigate complex and dynamic environments. AGVs are also becoming smarter with the integration of artificial intelligence (AI) and machine learning (ML) algorithms. These technologies allow AGVs to learn from their surroundings, optimize

their routes, and adapt to changing conditions in real time. AI and ML enable predictive maintenance, enhance the AGVs' reliability, and reduce downtime.

Several companies are using AI-based AGVs. In May 2023, KION announced that it is increasingly deploying AI systems in its solutions—such as smart factories, assistance systems, or AGVs. AI will help optimize warehouse operations, anticipate demand and bottlenecks, and reduce the risk of overstocks or shortfalls. The KION Group is proactively cultivating the potential that AI offers, harnessing its position as a global technology leader. AGVs are increasingly becoming part of interconnected systems within smart factories and warehouses. They communicate with other machines, control systems, and central servers, allowing coordinated operations, data exchange, and real-time tracking. These technological advancements drive the AGV market toward increased automation, efficiency, and adaptability. As businesses continue to seek ways to optimize their operations, AGVs equipped with latest technologies are projected to become attractive solutions to meet the growing demand of various industries, from manufacturing and warehousing to healthcare and logistics.

Asia Pacific Automated Guided Vehicle Market Overview

The Asia Pacific automated guided vehicle market is segmented into China, Japan, India, Australia, South Korea, and the Rest of Asia Pacific. Rapid developments, digitalization of the economy, adequate government support, increasing education awareness, and rising incomes of the middle class are a few factors contributing to the development of the abovementioned economies. In Asia Pacific, the manufacturing, electronics & semiconductor, and automotive sectors are heavily dependent on the use of automated material handling systems to ensure optimum material handling costs, increased employee safety, and improved overall supply chain efficiency.

Asia Pacific Automated Guided Vehicle Market Revenue and Forecast to 2030 (US\$ Million)

Asia Pacific Automated Guided Vehicle Market Segmentation

The Asia Pacific automated guided vehicle market is segmented based on technology, vehicle type, end user, and country. Based on technology, the Asia Pacific 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 Asia Pacific automated guided vehicle market is segmented into pallet trucks, tow vehicle, tigger trains, forklift trucks, and others. The tow vehicle segment held the largest market share in 2022.

Based on end user, the Asia Pacific 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 Asia Pacific automated guided vehicle market is segmented into China, Japan, India, South Korea, Australia, Indonesia, Singapore, Malaysia, Thailand, and the Rest of Asia Pacific. China dominated the Asia Pacific 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 Asia Pacific automated guided vehicle market.

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