

# Automated Guided Vehicle Market Size, Share & Trends Analysis Report By Vehicle Type, By Navigation Technology, By Application, By End Use Industry, By Component, By Battery Type, And Segment Forecasts, 2022 - 2030

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## Abstracts

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### Automated Guided Vehicle Market Growth & Trends

The global automated guided vehicle market size is expected to reach USD 9.38 billion by 2030, according to a new report by Grand View Research, Inc. The market is anticipated to reach a CAGR of 10.2% from 2022 to 2030. Automated guided vehicles (AGVs) have transformed the way materials can be moved within the manufacturing and distribution facilities. In a production environment where several operations are carried out simultaneously, these vehicles ensure a predictable and reliable transfer of raw materials as well as manufactured products from one point to another point within the facility, thereby eliminating any potential disruption in production. These vehicles can operate safely around structures, machinery, and employees, as they are equipped with accessories, such as camera vision and LiDAR sensors, among others, which help in detecting junctions, identifying floor signs, and avoiding collisions with any obstacle.

For instance, in November 2021, Quanergy Systems, Inc., a U.S.-based company that offers an AI-powered LiDAR platform, launched the new M1 Edge 2D LiDAR sensors for automation. The newly launched LiDAR sensor is light in weight, broad 360°, with a sensing capability of up to 200 meters used in mobile robotics, AGVs, warehouse logistics applications, and port automation.

Several manufacturing plants and warehouses are deploying material handling equipment for various activities, such as locating stock, picking orders, and moving products and raw materials. Transportation and logistics firms are mainly focusing on the deployment of such equipment to boost the efficiency of their operations in line with the growing demand for their services. For instance, in February 2021, Scott (Transbotics Corporation), a prominent solution provider for AGVs, partnered with KUKA AG, a German manufacturer of robots, to coordinate the industrial robots of KUKA AG into material handling systems. Further, these robots would also benefit the warehouse team to assemble, pack, weld, store, and ship. Also, material handling solutions are used to increase the efficiency of transportation, decrease physical damage to the material, and reduce overheads by limiting the number of employees.

The AGV market is witnessing a progressive switch from lead-acid batteries to lithium-ion batteries. Lithium-ion batteries offer several advantages over lead-acid batteries. They tend to be lighter and compact. They can charge faster, provide longer runtimes, and support more charge cycles. Hence, they are ideal for AGVs, as they need not be charged frequently during operating shifts or in 24x7 operating environments, and AGVs running on lithium-ion batteries can offer higher round-trip efficiencies. For instance, in March 2021, Nissan Motor Co., Ltd, a global manufacturer of automobiles, buses, and trucks, stated that they use lithium-ion batteries to power their automated guided vehicles, which no longer need a worker to remove the battery and plug them in it charges faster. These batteries let AGVs last longer and bring significant innovations to their warehouse.

### Automated Guided Vehicle Market Report Highlights

The adoption of material handling equipment and automation solutions is growing significantly across several industries

The growing adoption of AGVs by the automotive industry as well as the automotive supply industry to move intermediate products within the facility is expected to drive the growth of the AGV market

The manufacturing industry is increasingly adopting AGVs to save on labor costs. While AGV can operate on a 24x7 basis, the costs associated with the procurement and maintenance of AGV tend to be lesser than the costs incurred on salaries and employee benefits

The logistics and warehousing segment happen to be the largest application of

AGVs. The segment generated the highest revenue in 2021 and is expected to retain its dominance during the forecast period

The European regional market dominated the global AGVs market in 2021. However, the Asia Pacific regional market is projected to expand at the highest CAGR from 2022 to 2030

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