+44 20 8123 2220
info@marketpublishers.com

Automated Guided Vehicle Market – Global Industry Size, Share, Trends, Opportunity, and Forecast, Segmented By Vehicle Type (Tow Vehicle, Unit Load Carrier, Pallet Truck, Forklift Truck, Hybrid Vehicles, Others), By Navigation Technology (Laser Guidance, Magnetic Guidance, Vision Guidance, Inductive Guidance, Natural Navigation, Others), By Application (Logistics and Warehousing, Assembly, Packaging, Trailer Loading and Unloading, Raw Material Handling, Others), By Component (Hardware, Software, Service), By Battery Type (Lead Battery, Lithium-Ion Battery, Nickel-based Battery, Others), By Region, By Competition, 2019-2029F

https://marketpublishers.com/r/A806AF55F4B1EN.html
Date: April 2024
Pages: 181
Price: US$ 4,900.00 (Single User License)
ID: A806AF55F4B1EN

Abstracts

Global Automated Guided Vehicle Marketwas valued at USD 5.3 Billion in 2023 and is anticipated to project robust growth in the forecast period with a CAGR of 10.4% through 2029.The Global Automated Guided Vehicle (AGV) market has witnessed substantial growth driven by the increasing need for automation across various industries. AGVs, an integral part of modern material handling systems, offer enhanced efficiency, reduced operational costs, and improved safety in logistics and manufacturing processes. Industries such as automotive, e-commerce, healthcare, and food beverage are leveraging AGVs to streamline their operations, optimize workflows, and meet escalating consumer demands for faster deliveries. The market expansion is further fueled by technological advancements such as integration with AI, IoT sensors,

and machine learning algorithms, enabling AGVs to adapt to dynamic environments and collaborate seamlessly with existing infrastructure. Additionally, the ongoing trend toward Industry 4.0 and the rising focus on warehouse optimization are propelling the adoption of AGVs globally. As companies seek ways to enhance productivity and mitigate labor shortages, the AGV market is poised for continuous growth, with projections indicating a steady trajectory as businesses increasingly recognize the value of these automated solutions in revolutionizing their operations.

Key Market Drivers

Rising Demand for Warehouse Automation

The profound transformation in warehouse operations catalyzed by the upsurge in e-commerce and omnichannel retailing has been monumental. AGVs, propelled by their capacity to streamline warehouse efficiency, are increasingly coveted in this shifting landscape. The pressing demand for expedited order fulfillment and the imperative to manage a diverse spectrum of products within warehouses have steered the spotlight onto AGVs. These adept vehicles autonomously maneuver through warehouse expanses, seamlessly executing multifaceted tasks encompassing picking, packing, and the seamless transportation of goods. The consequential upswing in efficiency represents a remarkable stride, empowering warehouses to adeptly handle augmented volumes with surgical precision, thereby significantly curtailing errors, labor overheads, and the elapsed time for order processing.

Technological Advancements and Integration of AI and IoT

The evolution of AGVs stands as a testament to their significant transformation driven by technological progress. Through the seamless integration of artificial intelligence (AI), machine learning algorithms, and Internet of Things (IoT) sensors, AGVs have undergone a remarkable augmentation in their functionalities. These innovative amalgamations have bestowed AGVs with heightened cognitive capabilities, allowing them to operate with astute intelligence. Real-time decision-making has become a hallmark feature, empowering AGVs to navigate through ever-changing and dynamic environments with exceptional precision. Their newfound adeptness extends further to seamless collaboration with an array of machinery and interconnected systems. This elevated level of sophistication signifies a profound adaptability, rendering AGVs not just efficient but also imbued with a heightened sense of safety in multifaceted industrial settings. This amalgamation of technological advancements has propelled the adoption of AGVs across a spectrum of industries, transcending their traditional application

boundaries in manufacturing and logistics sectors.

Need for Workplace Safety and Reduction in Accidents

Persistent challenges regarding safety in industrial settings have long been a focal point. AGVs have emerged as a pivotal solution in alleviating these concerns by minimizing human involvement in material handling tasks, significantly mitigating associated risks. Functioning with meticulous precision, AGVs adhere to predetermined routes and stringent safety protocols. Leveraging advanced sensor systems, these vehicles exhibit an adeptness in detecting obstacles, evading collisions, and operating harmoniously alongside human workers. This heightened safety profile extends beyond the mere reduction of accidents, fostering an environment fortified with enhanced security measures. Consequently, the adoption of AGVs has gained momentum across industries where prioritizing safety remains an utmost concern, owing to their intrinsic ability to fortify and uphold safety standards within industrial landscapes.

Industry 4.0 and the Shift Towards Smart Manufacturing

The advent of Industry 4.0, distinguished by the assimilation of digital technologies into the fabric of manufacturing operations, has ignited a surge in the requisition for AGVs. These automated vehicles harmonize seamlessly with the ethos of intelligent manufacturing, embodying traits of adaptability, nimbleness, and operational efficiency. AGVs serve as a natural fit within the interconnected and data-centric realms of modern production landscapes, harmonizing effortlessly within these domains. Facilitating the paradigm of just-in-time manufacturing, they contribute significantly by curbing lead times and optimizing the intricate intricacies of supply chain operations. Their capacity to collaborate synergistically with a spectrum of automated systems bestows upon AGVs a pivotal role, positioning them as indispensable entities within the fabric of Industry 4.0, shaping the landscape of modern manufacturing processes.

Labor Shortages and Cost Optimization

In today's global employment scenario, specific industries grapple with a scarcity in their workforce. AGVs emerge as a tangible remedy poised to confront this predicament by automating tasks that are repetitive and physically arduous. This shift towards automation serves as a pivotal strategy for businesses aiming to streamline expenses and curtail their reliance on manual labor. AGVs, in this context, emerge as an alluring alternative, captivating the attention of companies spanning diverse sectors. They step in as a solution to bridge the void caused by shortages in labor, concurrently elevating

+44 20 8123 2220
info@marketpublishers.com

operational efficiency and charting a course towards reduced long-term operational expenditures. This pronounced emphasis on cost-efficiency measures and the relentless pursuit of operational excellence perpetuates the escalating embrace of AGVs on a global scale.

Key Market Challenges

Integration Complexity and Infrastructure Adaptation

One of the foremost challenges in implementing AGV systems is integrating them seamlessly into existing infrastructure. Many industries, especially those with established operations, face hurdles when adapting their facilities to accommodate AGVs. Retrofitting existing warehouses, manufacturing plants, or distribution centers to accommodate navigation systems, charging stations, and communication networks can be complex and costly. Different types of AGVs might require varying infrastructure configurations, which further complicates the integration process. Additionally, ensuring compatibility with other automated systems, such as warehouse management software or conveyor systems, poses a challenge. Overcoming these integration complexities while minimizing disruptions to ongoing operations remains a significant challenge for businesses adopting AGV technology.

Reliability and Performance in Dynamic Environments

While AGVs offer substantial benefits in controlled environments, their performance in dynamic and unpredictable settings presents a challenge. These vehicles rely heavily on predefined routes and mapping systems, making them susceptible to disruptions caused by unexpected obstacles, changes in the layout, or temporary obstructions. Maintaining consistent and reliable performance in environments with varying conditions, such as fluctuating traffic, changing product layouts, or seasonal variations in workload, poses a significant challenge. AGVs must adapt swiftly to these dynamic conditions without compromising safety, efficiency, or operational continuity, requiring robust sensor technology and adaptable algorithms to navigate such environments effectively.

Cybersecurity Risks and Data Protection

The increased integration of AGVs with interconnected systems and networks exposes them to cybersecurity threats. AGVs rely on data transmission, software controls, and communication networks, making them potential targets for cyberattacks. Breaches in

+44 20 8123 2220
info@marketpublishers.com

AGV systems could lead to operational disruptions, compromised safety protocols, or unauthorized access to sensitive data. Ensuring the cybersecurity resilience of AGVs involves implementing robust encryption protocols, access controls, and regular updates to mitigate vulnerabilities. Moreover, as AGVs gather and transmit substantial amounts of operational data, ensuring data privacy and compliance with data protection regulations adds another layer of complexity for businesses adopting this technology.

Costs, Return on Investment, and Scalability

Despite the long-term benefits, the initial costs associated with acquiring and implementing AGV systems can be substantial. Businesses often face challenges in justifying these upfront investments and calculating the expected return on investment (ROI). Determining the cost-effectiveness of AGVs involves considerations beyond the initial purchase, including installation, training, maintenance, and potential modifications to infrastructure. Assessing the scalability of AGV systems to accommodate future business growth and technological advancements poses another challenge. Businesses need to carefully evaluate the total cost of ownership against the expected gains in efficiency, productivity, and operational agility to make informed decisions about integrating AGV technology into their operations. Achieving a balance between upfront costs and long-term benefits remains a key challenge in adopting AGV systems.

Key Market Trends

Integration of Artificial Intelligence (AI) and Machine Learning (ML)

A prominent trend in the AGV market is the integration of advanced technologies like AI and ML to enhance the capabilities of these vehicles. AI-driven algorithms enable AGVs to make real-time decisions, optimize routes, and adapt to dynamic environments. Machine learning algorithms empower AGVs to learn from their interactions, improving navigation accuracy, predictive maintenance, and operational efficiency over time. This trend reflects a shift toward smarter, self-learning AGV systems that can analyze data, anticipate operational needs, and autonomously optimize workflows. As AI and ML continue to evolve, their integration into AGVs will further drive efficiency gains and operational adaptability across industries.

Rise of Autonomous Mobile Robots (AMRs) and Collaborative Robotics

The market is witnessing a surge in demand for Autonomous Mobile Robots (AMRs), a subset of AGVs designed to operate without fixed paths or guidance systems. AMRs

+44 20 8123 2220
info@marketpublishers.com

leverage onboard sensors, cameras, and advanced navigation algorithms to navigate dynamic environments autonomously. This trend aligns with the growing need for flexibility in material handling and logistics. Additionally, collaborative robotics, where AGVs work alongside human workers seamlessly, is gaining traction. AGVs equipped with safety features and enhanced human-machine interaction capabilities are enabling collaborative workflows, fostering safer and more efficient working environments.

Focus on Energy Efficiency and Sustainability

A key trend driving AGV development is the emphasis on energy efficiency and sustainability. Manufacturers are increasingly investing in AGVs equipped with energy-efficient components, such as regenerative braking systems and lithium-ion batteries. These measures not only reduce operational costs but also align with sustainability goals by minimizing carbon footprints. The integration of renewable energy sources, such as solar panels for charging, is also gaining attention. As businesses prioritize environmentally friendly practices, the market for eco-conscious AGV solutions is expanding, catering to industries striving for greener and more sustainable operations.

Expansion into Diverse Industry Verticals

Traditionally prominent in manufacturing and logistics, AGVs are now penetrating diverse industry verticals. Sectors like healthcare, pharmaceuticals, hospitality, and agriculture are increasingly adopting AGV technology to streamline internal logistics, automate repetitive tasks, and enhance operational efficiency. In healthcare, AGVs assist in medication delivery and logistics within hospitals, while in agriculture, they aid in harvesting and material handling. This trend signifies the versatility and adaptability of AGVs across various industries beyond their initial manufacturing-centric applications.

Cloud-Based Fleet Management and Connectivity

The adoption of cloud-based solutions for AGV fleet management is gaining momentum. Cloud platforms enable centralized control, monitoring, and optimization of AGV fleets across multiple locations. Real-time data analytics, remote diagnostics, and predictive maintenance capabilities offered by cloud-based systems enhance operational visibility and efficiency. Moreover, the integration of AGVs with Internet of Things (IoT) technology facilitates connectivity, enabling seamless communication among AGVs, warehouse management systems, and other machinery. This trend toward enhanced connectivity and cloud-based management systems is poised to revolutionize AGV operations, allowing for more agile and data-driven decision-making

+44 20 8123 2220
info@marketpublishers.com

processes.

Segmental Insights

Component Insights

The hardware segment emerged as the dominant force in the Global Automated Guided Vehicle (AGV) market and is anticipated to sustain its dominance throughout the forecast period. Hardware components within the AGV ecosystem encompass a wide array of crucial elements, including sensors, navigation systems, control units, motors, and batteries, among others. This dominance is attributed to the pivotal role hardware plays in the functionality and performance of AGVs. As the backbone of these autonomous vehicles, hardware components facilitate their navigation, movement, safety, and overall operational efficiency. The continuous advancements in sensor technologies, such as LiDAR, cameras, and ultrasonic sensors, contribute significantly to the precision and accuracy of AGV navigation and obstacle detection. Moreover, the evolution of robust control systems and motors enhances the agility and reliability of AGVs in various industrial settings. The hardware segment's dominance is further bolstered by the relentless pursuit of technological enhancements, such as improved battery capacities and energy-efficient components, addressing the demand for longer operational hours and sustainability. Given the criticality of hardware components in ensuring the functionality and performance of AGVs, their dominant position is poised to persist, supported by ongoing innovations aimed at enhancing the capabilities and efficiency of automated guided vehicles across industries.

Battery TypeInsights

The Lithium-Ion Battery segment emerged as the dominant force in the Global Automated Guided Vehicle (AGV) market and is projected to maintain its dominance over the forecast period. The supremacy of Lithium-Ion Batteries stems from their exceptional attributes that align perfectly with the evolving needs of AGV operations. These batteries offer higher energy densities, prolonged operational lifespans, faster charging capabilities, and reduced maintenance requirements compared to traditional lead-acid batteries or nickel-based alternatives. AGVs demand reliable power sources capable of supporting extended operational hours and frequent charging cycles without compromising efficiency. The inherent advantages of Lithium-Ion Batteries, including their lightweight nature, rapid charging capabilities, and high energy density, make them an ideal choice for powering AGVs across diverse industrial settings. Furthermore, as the focus on sustainability and environmental consciousness intensifies, the eco-

friendliness of Lithium-Ion Batteries, with their lower environmental impact and recyclability, positions them as the preferred choice in the AGV market. The ongoing advancements in battery technology, coupled with the continuous efforts to enhance the energy storage capacities and safety features of Lithium-Ion Batteries, fortify their dominance and ensure their sustained preference as the primary power source for Automated Guided Vehicles globally.

Application Insights

The Logistics and Warehousing segment emerged as the dominant force in the Global Automated Guided Vehicle (AGV) market and is anticipated to maintain its dominance throughout the forecast period. The surge in e-commerce activities, coupled with the increasing need for streamlined and efficient warehouse operations, has significantly propelled the adoption of AGVs in the logistics and warehousing sector. AGVs play a pivotal role in optimizing inventory management, order fulfillment, and material handling tasks within warehouses and distribution centers. Their ability to autonomously navigate through warehouse layouts, transport goods, and facilitate inventory tracking aligns perfectly with the demand for enhanced operational efficiency and cost-effectiveness in logistics. Furthermore, AGVs offer versatility in handling diverse tasks within logistics and warehousing, from goods transportation and pallet handling to goods picking and sorting. As industries continue to prioritize the modernization of their logistics operations, driven by the growing demand for rapid order fulfillment and inventory accuracy, the Logistics and Warehousing segment is poised to maintain its dominance. Additionally, the ongoing advancements in AGV technology, such as improved navigation systems, increased load capacities, and integration with warehouse management software, further solidify the position of AGVs as indispensable assets in optimizing logistics and warehousing operations, ensuring the sustained dominance of this segment in the AGV market.

Regional Insights

Asia Pacific region emerged as the dominant force in the Global Automated Guided Vehicle (AGV) market and is projected to maintain its dominance throughout the forecast period. Several factors contribute to Asia Pacific's prominent position in the AGV market. The region houses key manufacturing hubs and has witnessed rapid industrialization, particularly in countries like China, Japan, South Korea, and India. The increasing adoption of automation across industries, including automotive, electronics, e-commerce, and logistics, has been a significant driver of AGV demand in this region. The burgeoning e-commerce sector, coupled with the need for efficient material

+44 20 8123 2220
info@marketpublishers.com

handling and logistics in rapidly growing economies, has fueled the deployment of AGVs in warehouses and distribution centers. Moreover, government initiatives promoting Industry 4.0 and smart manufacturing practices, coupled with investments in robotics and automation technologies, have accelerated AGV adoption in Asia Pacific. Additionally, the presence of prominent AGV manufacturers and continuous technological advancements in navigation systems, AI integration, and sensor technologies further reinforce the region's dominance. As industries in Asia Pacific continue to prioritize operational efficiency, scalability, and technological advancements, the region is poised to maintain its leadership in the Global AGV market, supported by sustained industrial growth and a conducive environment for automation adoption.

Key Market Players

Daifuku Co., Ltd.

Dematic Group (KION Group AG)

Swisslog Holding AG (KUKA Group)

Murata Machinery, Co. Ltd.(Murata Manufacturing Group)

JBT Corporation

EK Robotics GmbH

Seegrid Corporation

Jungheinrich AG

Bastian Solutions, LLC

Hyster-Yale Materials Handling Inc.

Report Scope:

In this report, the Global Automated Guided Vehicle Market has been segmented into the following categories, in addition to the industry trends which have also been detailed below:

+44 20 8123 2220
info@marketpublishers.com

Automated Guided Vehicle Market,By Component:

oHardware

oServices

oSoftware

Automated Guided Vehicle Market,By Battery Type:

oLead Battery

oLithium-Ion Battery

oNickel-based Battery

oOthers

Automated Guided Vehicle Market,By Application:

oLogistics and Warehousing

oAssembly

oPackaging

oTrailer Loading and Unloading

oRaw Material Handling

oOthers

Automated Guided Vehicle Market,By Navigation Technology:

oLaser Guidance

oMagnetic Guidance

oVision Guidance

+44 20 8123 2220
info@marketpublishers.com

oInductive Guidance

oNatural Navigation

oOthers

Automated Guided Vehicle Market,By Vehicle Type:

oTow Vehicle

oUnit Load Carrier

oPallet Truck

oForklift Truck

oHybrid Vehicles

oOthers

Automated Guided Vehicle Market, By Region:

oNorth America

United States

Canada

Mexico

oEurope

France

United Kingdom

Italy

+44 20 8123 2220
info@marketpublishers.com

Germany

Spain

Belgium

oAsia-Pacific

China

India

Japan

Australia

South Korea

Indonesia

Vietnam

oSouth America

Brazil

Argentina

Colombia

Chile

Peru

oMiddle East Africa

+44 20 8123 2220
info@marketpublishers.com

South Africa

Saudi Arabia

UAE

Turkey

Israel

Competitive Landscape

Company Profiles: Detailed analysis of the major companies present in the Global Automated Guided Vehicle Market.

Available Customizations:

Global Automated Guided Vehicle marketreport with the given market data, Tech Sci Research offers customizations according to a company's specific needs. The following customization options are available for the report:

Company Information

Detailed analysis and profiling of additional market players (up to five).

+44 20 8123 2220
info@marketpublishers.com

Contents

1.PRODUCT OVERVIEW

1.1.Market Definition
1.2.Scope of the Market
  1.2.1.Markets Covered
  1.2.2.Years Considered for Study
  1.2.3.Key Market Segmentations

2.RESEARCH METHODOLOGY

2.1.Objective of the Study
2.2.Baseline Methodology
2.3.Formulation of the Scope
2.4.Assumptions and Limitations
2.5.Sources of Research
  2.5.1.Secondary Research
  2.5.2.Primary Research
2.6.Approach for the Market Study
  2.6.1.The Bottom-Up Approach
  2.6.2.The Top-Down Approach
2.7.Methodology Followed for Calculation of Market Size Market Shares
2.8.Forecasting Methodology
  2.8.1.Data Triangulation Validation

3.EXECUTIVE SUMMARY

4.IMPACT OF COVID-19 ON GLOBAL AUTOMATED GUIDED VEHICLE MARKET

5.VOICE OF CUSTOMER

6.GLOBAL AUTOMATED GUIDED VEHICLE

7.GLOBAL AUTOMATED GUIDED VEHICLE MARKET OUTLOOK

7.1.Market Size Forecast
  7.1.1.By Value
7.2.Market Share Forecast

+44 20 8123 2220
info@marketpublishers.com

7.2.1.By Vehicle Type (Tow Vehicle, Unit Load Carrier, Pallet Truck, Forklift Truck, Hybrid Vehicles, Others)
7.2.2.By Navigation Technology (Laser Guidance, Magnetic Guidance, Vision Guidance, Inductive Guidance, Natural Navigation, Others)
7.2.3.By Application (Logistics and Warehousing, Assembly, Packaging, Trailer Loading and Unloading, Raw Material Handling, Others)
7.2.4.By Component (Hardware, Software, Service)
7.2.5.By Battery Type (Lead Battery, Lithium-Ion Battery, Nickel-based Battery, Others)
7.2.6.By Region (North America, Europe, South America, Middle East Africa, Asia Pacific)
7.3.By Company (2023)
7.4.Market Map

8.NORTH AMERICA AUTOMATED GUIDED VEHICLE MARKETOUTLOOK

8.1.Market Size Forecast
8.1.1.By Value
8.2.Market Share Forecast
8.2.1.By Vehicle Type
8.2.2.By Navigation Technology
8.2.3.By Application
8.2.4.By Component
8.2.5.By Battery Type
8.2.6.By Country
8.3.North America: Country Analysis
8.3.1.United States Automated Guided Vehicle Market Outlook
8.3.1.1.Market Size Forecast
8.3.1.1.1.By Value
8.3.1.2.Market Share Forecast
8.3.1.2.1.By Vehicle Type
8.3.1.2.2.By Navigation Technology
8.3.1.2.3.By Application
8.3.1.2.4.By Component
8.3.1.2.5.By Battery Type
8.3.2.Canada Automated Guided Vehicle Market Outlook
8.3.2.1.Market Size Forecast
8.3.2.1.1.By Value
8.3.2.2.Market Share Forecast

+44 20 8123 2220
info@marketpublishers.com

8.3.2.2.1.By Vehicle Type
8.3.2.2.2.By Navigation Technology
8.3.2.2.3.By Application
8.3.2.2.4.By Component
8.3.2.2.5.By Battery Type
8.3.3.Mexico Automated Guided Vehicle Market Outlook
8.3.3.1.Market Size Forecast
8.3.3.1.1.By Value
8.3.3.2.Market Share Forecast
8.3.3.2.1.By Vehicle Type
8.3.3.2.2.By Navigation Technology
8.3.3.2.3.By Application
8.3.3.2.4.By Component
8.3.3.2.5.By Battery Type

9.EUROPE AUTOMATED GUIDED VEHICLE MARKETOUTLOOK

9.1.Market Size Forecast
9.1.1.By Value
9.2.Market Share Forecast
9.2.1.By Vehicle Type
9.2.2.By Navigation Technology
9.2.3.By Application
9.2.4.By Component
9.2.5.By Battery Type
9.2.6.By Country
9.3.Europe: Country Analysis
9.3.1.Germany Automated Guided Vehicle Market Outlook
9.3.1.1.Market Size Forecast
9.3.1.1.1.By Value
9.3.1.2.Market Share Forecast
9.3.1.2.1.By Vehicle Type
9.3.1.2.2.By Navigation Technology
9.3.1.2.3.By Application
9.3.1.2.4.By Component
9.3.1.2.5.By Battery Type
9.3.2.France Automated Guided Vehicle Market Outlook
9.3.2.1.Market Size Forecast
9.3.2.1.1.By Value

+44 20 8123 2220
info@marketpublishers.com

9.3.2.2.Market Share Forecast
9.3.2.2.1.By Vehicle Type
9.3.2.2.2.By Navigation Technology
9.3.2.2.3.By Application
9.3.2.2.4.By Component
9.3.2.2.5.By Battery Type
9.3.3.United Kingdom Automated Guided Vehicle Market Outlook
9.3.3.1.Market Size Forecast
9.3.3.1.1.By Value
9.3.3.2.Market Share Forecast
9.3.3.2.1.By Vehicle Type
9.3.3.2.2.By Navigation Technology
9.3.3.2.3.By Application
9.3.3.2.4.By Component
9.3.3.2.5.By Battery Type
9.3.4.Italy Automated Guided Vehicle Market Outlook
9.3.4.1.Market Size Forecast
9.3.4.1.1.By Value
9.3.4.2.Market Share Forecast
9.3.4.2.1.By Vehicle Type
9.3.4.2.2.By Navigation Technology
9.3.4.2.3.By Application
9.3.4.2.4.By Component
9.3.4.2.5.By Battery Type
9.3.5.Spain Automated Guided Vehicle Market Outlook
9.3.5.1.Market Size Forecast
9.3.5.1.1.By Value
9.3.5.2.Market Share Forecast
9.3.5.2.1.By Vehicle Type
9.3.5.2.2.By Navigation Technology
9.3.5.2.3.By Application
9.3.5.2.4.By Component
9.3.5.2.5.By Battery Type
9.3.6.Belgium Automated Guided Vehicle Market Outlook
9.3.6.1.Market Size Forecast
9.3.6.1.1.By Value
9.3.6.2.Market Share Forecast
9.3.6.2.1.By Vehicle Type
9.3.6.2.2.By Navigation Technology

+44 20 8123 2220
info@marketpublishers.com

9.3.6.2.3.By Application
9.3.6.2.4.By Component
9.3.6.2.5.By Battery Type

10.SOUTH AMERICA AUTOMATED GUIDED VEHICLE MARKET OUTLOOK

10.1.Market Size Forecast
10.1.1.By Value
10.2.Market Share Forecast
10.2.1.By Vehicle Type
10.2.2.By Navigation Technology
10.2.3.By Application
10.2.4.By Component
10.2.5.By Battery Type
10.2.6.By Country
10.3.South America: Country Analysis
10.3.1.Brazil Automated Guided Vehicle Market Outlook
10.3.1.1.Market Size Forecast
10.3.1.1.1.By Value
10.3.1.2.Market Share Forecast
10.3.1.2.1.By Vehicle Type
10.3.1.2.2.By Navigation Technology
10.3.1.2.3.By Application
10.3.1.2.4.By Component
10.3.1.2.5.By Battery Type
10.3.2.Colombia Automated Guided Vehicle Market Outlook
10.3.2.1.Market Size Forecast
10.3.2.1.1.By Value
10.3.2.2.Market Share Forecast
10.3.2.2.1.By Vehicle Type
10.3.2.2.2.By Navigation Technology
10.3.2.2.3.By Application
10.3.2.2.4.By Component
10.3.2.2.5.By Battery Type
10.3.3.Argentina Automated Guided Vehicle Market Outlook
10.3.3.1.Market Size Forecast
10.3.3.1.1.By Value
10.3.3.2.Market Share Forecast
10.3.3.2.1.By Vehicle Type

+44 20 8123 2220
info@marketpublishers.com

10.3.3.2.2.By Navigation Technology
10.3.3.2.3.By Application
10.3.3.2.4.By Component
10.3.3.2.5.By Battery Type
10.3.4.Chile Automated Guided Vehicle Market Outlook
10.3.4.1.Market Size Forecast
10.3.4.1.1.By Value
10.3.4.2.Market Share Forecast
10.3.4.2.1.By Vehicle Type
10.3.4.2.2.By Navigation Technology
10.3.4.2.3.By Application
10.3.4.2.4.By Component
10.3.4.2.5.By Battery Type
10.3.5.Peru Automated Guided Vehicle Market Outlook
10.3.5.1.Market Size Forecast
10.3.5.1.1.By Value
10.3.5.2.Market Share Forecast
10.3.5.2.1.By Vehicle Type
10.3.5.2.2.By Navigation Technology
10.3.5.2.3.By Application
10.3.5.2.4.By Component
10.3.5.2.5.By Battery Type

11.MIDDLE EAST AFRICA AUTOMATED GUIDED VEHICLE MARKETOUTLOOK

11.1.Market Size Forecast
11.1.1.By Value
11.2.Market Share Forecast
11.2.1.By Vehicle Type
11.2.2.By Navigation Technology
11.2.3.By Application
11.2.4.By Component
11.2.5.By Battery Type
11.2.6.By Country
11.3.Middle East Africa: Country Analysis
11.3.1.Saudi Arabia Automated Guided Vehicle Market Outlook
11.3.1.1.Market Size Forecast
11.3.1.1.1.By Value
11.3.1.2.Market Share Forecast

+44 20 8123 2220
info@marketpublishers.com

11.3.1.2.1.By Vehicle Type
11.3.1.2.2.By Navigation Technology
11.3.1.2.3.By Application
11.3.1.2.4.By Component
11.3.1.2.5.By Battery Type
11.3.2.UAE Automated Guided Vehicle Market Outlook
11.3.2.1.Market Size Forecast
11.3.2.1.1.By Value
11.3.2.2.Market Share Forecast
11.3.2.2.1.By Vehicle Type
11.3.2.2.2.By Navigation Technology
11.3.2.2.3.By Application
11.3.2.2.4.By Component
11.3.2.2.5.By Battery Type
11.3.3.South Africa Automated Guided Vehicle Market Outlook
11.3.3.1.Market Size Forecast
11.3.3.1.1.By Value
11.3.3.2.Market Share Forecast
11.3.3.2.1.By Vehicle Type
11.3.3.2.2.By Navigation Technology
11.3.3.2.3.By Application
11.3.3.2.4.By Component
11.3.3.2.5.By Battery Type
11.3.4.Turkey Automated Guided Vehicle Market Outlook
11.3.4.1.Market Size Forecast
11.3.4.1.1.By Value
11.3.4.2.Market Share Forecast
11.3.4.2.1.By Vehicle Type
11.3.4.2.2.By Navigation Technology
11.3.4.2.3.By Application
11.3.4.2.4.By Component
11.3.4.2.5.By Battery Type
11.3.5.Israel Automated Guided Vehicle Market Outlook
11.3.5.1.Market Size Forecast
11.3.5.1.1.By Value
11.3.5.2.Market Share Forecast
11.3.5.2.1.By Vehicle Type
11.3.5.2.2.By Navigation Technology
11.3.5.2.3.By Application

+44 20 8123 2220
info@marketpublishers.com

11.3.5.2.4.By Component
11.3.5.2.5.By Battery Type

12.ASIA PACIFIC AUTOMATED GUIDED VEHICLE MARKET OUTLOOK

12.1.Market Size Forecast
12.1.1.By Value
12.2.Market Share Forecast
12.2.1.By Vehicle Type
12.2.2.By Navigation Technology
12.2.3.By Application
12.2.4.By Component
12.2.5.By Battery Type
12.2.6.By Country
12.3.Asia-Pacific: Country Analysis
12.3.1.China Automated Guided Vehicle Market Outlook
12.3.1.1.Market Size Forecast
12.3.1.1.1.By Value
12.3.1.2.Market Share Forecast
12.3.1.2.1.By Vehicle Type
12.3.1.2.2.By Navigation Technology
12.3.1.2.3.By Application
12.3.1.2.4.By Component
12.3.1.2.5.By Battery Type
12.3.2.India Automated Guided Vehicle Market Outlook
12.3.2.1.Market Size Forecast
12.3.2.1.1.By Value
12.3.2.2.Market Share Forecast
12.3.2.2.1.By Vehicle Type
12.3.2.2.2.By Navigation Technology
12.3.2.2.3.By Application
12.3.2.2.4.By Component
12.3.2.2.5.By Battery Type
12.3.3.Japan Automated Guided Vehicle Market Outlook
12.3.3.1.Market Size Forecast
12.3.3.1.1.By Value
12.3.3.2.Market Share Forecast
12.3.3.2.1.By Vehicle Type
12.3.3.2.2.By Navigation Technology

+44 20 8123 2220
info@marketpublishers.com

12.3.3.2.3.By Application
12.3.3.2.4.By Component
12.3.3.2.5.By Battery Type
12.3.4.South Korea Automated Guided Vehicle Market Outlook
12.3.4.1.Market Size Forecast
12.3.4.1.1.By Value
12.3.4.2.Market Share Forecast
12.3.4.2.1.By Vehicle Type
12.3.4.2.2.By Navigation Technology
12.3.4.2.3.By Application
12.3.4.2.4.By Component
12.3.4.2.5.By Battery Type
12.3.5.Australia Automated Guided Vehicle Market Outlook
12.3.5.1.Market Size Forecast
12.3.5.1.1.By Value
12.3.5.2.Market Share Forecast
12.3.5.2.1.By Vehicle Type
12.3.5.2.2.By Navigation Technology
12.3.5.2.3.By Application
12.3.5.2.4.By Component
12.3.5.2.5.By Battery Type
12.3.6.Indonesia Automated Guided Vehicle Market Outlook
12.3.6.1.Market Size Forecast
12.3.6.1.1.By Value
12.3.6.2.Market Share Forecast
12.3.6.2.1.By Vehicle Type
12.3.6.2.2.By Navigation Technology
12.3.6.2.3.By Application
12.3.6.2.4.By Component
12.3.6.2.5.By Battery Type
12.3.7.Vietnam Automated Guided Vehicle Market Outlook
12.3.7.1.Market Size Forecast
12.3.7.1.1.By Value
12.3.7.2.Market Share Forecast
12.3.7.2.1.By Vehicle Type
12.3.7.2.2.By Navigation Technology
12.3.7.2.3.By Application
12.3.7.2.4.By Component
12.3.7.2.5.By Battery Type

+44 20 8123 2220
info@marketpublishers.com

13.MARKET DYNAMICS

13.1.Drivers
13.2.Challenges

14.MARKET TRENDS AND DEVELOPMENTS

15.COMPANY PROFILES

15.1.Daifuku Co., Ltd.
  15.1.1.Business Overview
  15.1.2.Key Revenue and Financials
  15.1.3.Recent Developments
  15.1.4.Key Personnel/Key Contact Person
  15.1.5.Key Product/Services Offered
15.2.Dematic Group (KION Group AG)
  15.2.1.Business Overview
  15.2.2.Key Revenue and Financials
  15.2.3.Recent Developments
  15.2.4.Key Personnel/Key Contact Person
  15.2.5.Key Product/Services Offered
15.3.Swisslog Holding AG (KUKA Group)
  15.3.1.Business Overview
  15.3.2.Key Revenue and Financials
  15.3.3.Recent Developments
  15.3.4.Key Personnel/Key Contact Person
  15.3.5.Key Product/Services Offered
15.4.Murata Machinery, Co. Ltd.(Murata Manufacturing Group)
  15.4.1.Business Overview
  15.4.2.Key Revenue and Financials
  15.4.3.Recent Developments
  15.4.4.Key Personnel/Key Contact Person
  15.4.5.Key Product/Services Offered
15.5.JBT Corporation
  15.5.1.Business Overview
  15.5.2.Key Revenue and Financials
  15.5.3.Recent Developments
  15.5.4.Key Personnel/Key Contact Person

+44 20 8123 2220
info@marketpublishers.com

15.5.5.Key Product/Services Offered
15.6.EK Robotics GmbH
15.6.1.Business Overview
15.6.2.Key Revenue and Financials
15.6.3.Recent Developments
15.6.4.Key Personnel/Key Contact Person
15.6.5.Key Product/Services Offered
15.7.Seegrid Corporation
15.7.1.Business Overview
15.7.2.Key Revenue and Financials
15.7.3.Recent Developments
15.7.4.Key Personnel/Key Contact Person
15.7.5.Key Product/Services Offered
15.8.Jungheinrich AG
15.8.1.Business Overview
15.8.2.Key Revenue and Financials
15.8.3.Recent Developments
15.8.4.Key Personnel/Key Contact Person
15.8.5.Key Product/Services Offered
15.9.Bastian Solutions, LLC
15.9.1.Business Overview
15.9.2.Key Revenue and Financials
15.9.3.Recent Developments
15.9.4.Key Personnel/Key Contact Person
15.9.5.Key Product/Services Offered
15.10.Hyster-Yale Materials Handling Inc.
15.10.1.Business Overview
15.10.2.Key Revenue and Financials
15.10.3.Recent Developments
15.10.4.Key Personnel/Key Contact Person
15.10.5.Key Product/Services Offered

16.STRATEGIC RECOMMENDATIONS

17.ABOUT US DISCLAIMER

+44 20 8123 2220
info@marketpublishers.com

I would like to order

Product name: Automated Guided Vehicle Market – Global Industry Size, Share, Trends, Opportunity, and Forecast, Segmented By Vehicle Type (Tow Vehicle, Unit Load Carrier, Pallet Truck, Forklift Truck, Hybrid Vehicles, Others), By Navigation Technology (Laser Guidance, Magnetic Guidance, Vision Guidance, Inductive Guidance, Natural Navigation, Others), By Application (Logistics and Warehousing, Assembly, Packaging, Trailer Loading and Unloading, Raw Material Handling, Others), By Component (Hardware, Software, Service), By Battery Type (Lead Battery, Lithium-Ion Battery, Nickel-based Battery, Others), By Region, By Competition, 2019-2029F

Product link: https://marketpublishers.com/r/A806AF55F4B1EN.html

Price: US$ 4,900.00 (Single User License / Electronic Delivery)

If you want to order Corporate License or Hard Copy, please, contact our Customer Service:
info@marketpublishers.com

Payment

To pay by Credit Card (Visa, MasterCard, American Express, PayPal), please, click button on product page https://marketpublishers.com/r/A806AF55F4B1EN.html

To pay by Wire Transfer, please, fill in your contact details in the form below:

First name:
Last name:
Email:
Company:
Address:
City:
Zip code:
Country:
Tel:
Fax:
Your message:

**All fields are required

Custumer signature _____

+44 20 8123 2220
info@marketpublishers.com

Please, note that by ordering from marketpublishers.com you are agreeing to our Terms & Conditions at https://marketpublishers.com/docs/terms.html

To place an order via fax simply print this form, fill in the information below and fax the completed form to +44 20 7900 3970