

# **Global Automated Guided Vehicle Market By Component (Hardware, Software and Services) By type (Tow Vehicle, Pallet Truck, Unit Load Carrier, Hybrid Vehicles and Forklift Truck & Others) By Navigation Technology (Laser Guidance, Vision Guidance, Magnetic Guidance, Inductive Guidance and Natural Navigation & Others) By Application (Logistics & Warehousing, Assembly, Packaging, Trailer Loading & Unloading and Raw Material Handling & Others) By End User (Automotive, Manufacturing, Logistics, Food & Beverages, Retail, Healthcare and Others) By Region, Industry Analysis and Forecast, 2019 - 2025**

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## **Abstracts**

The Global Automated Guided Vehicle Market size is expected to reach \$5.4 billion by 2025, rising at a market growth of 13.6% CAGR during the forecast period. Automated guided vehicles (AGVs) are fully automated transport systems that run on unmanned vehicles. Automated guided vehicles deliver a range of benefits, such as a reduction in operating costs, increased safety of the workforce and a decrease in production time. The other factors leading to the adoption of AGV are the growing implementation of mobile robots worldwide and initiatives to improve safety and productivity at work.

Industrial structures are rapidly evolving, moving towards automated systems to enhance and optimize productivity levels, reorganize logistics, and improve

transportation & logistics systems. Industry 4.0's emergence has contributed to the widespread sharing of data and automation in the manufacturing industry. With growing interest and a move toward automated systems and innovations, the automated market for guided vehicles has seen growth in recent years. Technological advances, especially in the navigation area, have played an important role in increasing the adoption of automated guided vehicles in the manufacturing sector.

Due to rapid technological advances in robotics and automation, the manufacturing sector has seen an increase in the incorporation of robotics engineering and technology into its production process. Manufacturers recognize factors like orientation, precision, load, speed, duty cycle, travel and climate before selecting a robot to achieve the most efficient and profitable results in their manufacturing plant. An integrated robot is one of the most widely discussed types of industrial robots, which resembles a human arm in its mechanical form. Articulated robots with six degrees of freedom are the most widely used industrial robots, as the architecture provides maximum flexibility and application in various applications like automotive assembly, food packaging, forging applications, etc.

Based on Component, the market is segmented into Hardware, Software and Services. Based on type, the market is segmented into Tow Vehicle, Pallet Truck, Unit Load Carrier, Hybrid Vehicles and Forklift Truck & Others. Based on Navigation Technology, the market is segmented into Laser Guidance, Vision Guidance, Magnetic Guidance, Inductive Guidance and Natural Navigation & Others. Based on Application, the market is segmented into Logistics & Warehousing, Assembly, Packaging, Trailer Loading & Unloading and Raw Material Handling & Others. Based on End User, the market is segmented into Automotive, Manufacturing, Logistics, Food & Beverages, Retail, Healthcare and Others. Based on Regions, the market is segmented into North America, Europe, Asia Pacific, and Latin America, Middle East & Africa.

The major strategies followed by the market participants are Acquisition and Partnerships. Based on the Analysis presented in the Cardinal matrix, Kion Group, Toyota Industries Corporation, ABB Group, John Bean Technologies Corporation, Daifuku Co., Limited, and The Krones Group are some of the forerunners in the Automated Guided Vehicle Market. Companies such as Hyster-Yale Materials Handling, Inc., Kuka AG, and Oceaneering International, Inc. are some of the key innovators in Automated Guided Vehicle Market. The market research report covers the analysis of key stakeholders of the market. Key companies profiled in the report include ABB Group, Kion Group (Dematic), Toyota Industries Corporation (Bastian Solutions LLC), Daifuku Co., Limited, John Bean Technologies Corporation, Oceaneering International,

Inc., Kuka AG (Swisslog Holding), Hyster-Yale Materials Handling, Inc., E&K Automation GmbH, and The Krones Group.

Recent strategies deployed in Automated Guided Vehicles Market

Partnerships, Collaborations, and Agreements:

Apr-2019: John Bean collaborated with Hyster-Yale, a company engaged in designing, engineering, manufacturing, selling, and servicing a comprehensive line of lift trucks and aftermarket parts. Following this collaboration, JBT is launching a new dual-mode automated guided vehicle to the market powered by Hyster-Yale.

Apr-2019: Hyster-Yale collaborated with RICO Manufacturing, a company that manufactures lift trucks. Following this collaboration, the company launched a new offering which converts their 6,000 lbs. capacity Hyster or Yale electric counterbalance lift truck to a certified EX model with the help of the latter company.

Mar-2019: John Bean teamed up with Crown Equipment, a manufacturer of powered industrial forklift trucks. The collaboration was aimed at manufacturing the products, which would help the clients in maximizing the benefits of material handling automation.

Feb-2019: Hyster-Yale introduced a series of trucks by using robotics technology in collaboration with Balyo.

Mar-2018: Kuka announced partnership with Homag Group, a market leader in wood processing machines. The partnership was aimed at developing smart robot solutions and selling them to the global woodworking market.

Feb-2018: Daifuku came into partnership with Jervis B Webb, a company engaged in designing, engineering, installing, and supporting the integrated material handling systems. Under this partnership, the companies aim to deliver comprehensive solutions to vehicle manufacturers and their suppliers.

Acquisition and Mergers:

Jan-2020: Toyota Forklift merged Toyota Industrial Equipment Manufacturing (TIEM) and Toyota Material Handling USA (TMHU), its two forklift divisions into a single unit named as Toyota Material Handling, Inc. (TMH). The merger enabled the company in simplifying, streamlining, and strengthening customer experiences.

Apr-2019: Toyota Industries North America completed the acquisition of Hoist Liftruck Mfg., LLC. The company was renamed as Hoist Material Handling, Inc. and operates under Toyota Material Handling USA. The acquisition strengthened the forklift product line of Toyota.

Apr-2019: Daifuku completed the acquisition of Vega Conveyors and Automation, a

warehouse automation company. Through this acquisition, the former company aims to expand its foothold in India and other markets within Oceania and Asia by using the latter company's technology and expertise.

Jan-2019: John Bean acquired LEKTRO, a manufacturer and supplier of all-electric towbarless tow and pushback vehicles. Together, the companies would offer global sales and support presence to the customers, enhanced product portfolio, and increased engineering capabilities.

Jun-2018: Hyster-Yale acquired 75% stake in Zhejiang Maximal Forklift Co., Ltd. from KNSN Pipe & Pile Company Limited. The company was renamed as Hyster-Yale Maximal Forklift (Zhejiang) Co., Ltd. The acquisition enhanced the product portfolio of the former company.

Jul-2017: ABB completed the acquisition of B&R (Bernecker + Rainer Industrie-Elektronik GmbH), a provider of on product- and software-based, and open-architecture solutions for machine and factory automation. The acquisition expanded ABB's expertise and leadership in industrial automation.

Jun-2016: Kion took over Dematic, a best-in-class automation provider. Through this acquisition, Kion Group became one of the leading global providers of intelligent intralogistics solutions.

#### Geographical Expansions:

Sep-2019: ABB announced that it is opening a new robotics manufacturing factory in China. The construction of this factory has been started and expected to open in early 2020. It would be the most advanced, flexible, and automated factory in the robotics industry.

Mar-2018: Kuka opened a new matrix production plant in Augsburg, Germany. This plant expanded the company's reach to Germany.

#### Product Launches and Product Expansions:

Nov-2018: Oceaneering introduced REVO-GT, a transportation vehicle system. This system uses self-guided driverless group transit vehicles and has the capacity of up to 24 passengers. It enables the passengers to select from pre-programmed routes connecting different origins to one or more specific destinations.

May-2018: Toyota introduced a new Traigo80 heavy-duty electric forklift. This forklift delivers high-performance, manoeuvrability, and efficiency.

Mar-2018: Toyota released T-ONE, new intelligent in-house developed automated guided vehicle automation software. The software has been installed as an integration layer, which communicates with the Toyota Autopilot automated guided vehicles (AGVs)

and existing infrastructure such as goods identification equipment, warehouse management systems, and other material handling equipment.

## Scope of the Study

### Market Segmentation:

#### By Component

Hardware

Software

Services

#### By Type

Tow Vehicle

Pallet Truck

Unit Load Carrier

Hybrid Vehicles

Forklift Truck & Others

#### By Navigation Technology

Laser Guidance

Vision Guidance

Magnetic Guidance

Inductive Guidance

Natural Navigation & Others

#### By Application

Logistics & Warehousing

Assembly

Packaging

Trailer Loading and Unloading

Raw Material Handling & Others

#### By End User

Automotive

Manufacturing

Logistics

Food & Beverages

Retail

Healthcare

Others

#### By Geography

North America

US

Canada

Mexico

Rest of North America

Europe

Germany

UK

France

Russia

Spain

Italy

Rest of Europe

Asia Pacific

China

Japan

India

South Korea

Singapore

Malaysia

Rest of Asia Pacific

LAMEA

Brazil

Argentina

UAE

Saudi Arabia

South Africa

Nigeria

Rest of LAMEA

#### Companies Profiled

ABB Group

Kion Group (Dematic)

Toyota Industries Corporation (Bastian Solutions LLC)

Daifuku Co., Limited

John Bean Technologies Corporation

Oceaneering International, Inc.

Kuka AG (Swisslog Holding)

Hyster-Yale Materials Handling, Inc.

E&K Automation GmbH

The Krones Group

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