

Global Automated Guided Vehicle for Cleanroom Market 2026 by Manufacturers, Regions, Type and Application, Forecast to 2032

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Abstracts

According to our (Global Info Research) latest study, the global Automated Guided Vehicle for Cleanroom market size was valued at US\$ 2521 million in 2025 and is forecast to a readjusted size of US\$ 4642 million by 2032 with a CAGR of 9.1% during review period.

In 2025, global production capacity for cleanroom AGVs is estimated at approximately 15,000 units, with actual shipments reaching around 13,200 units. The average selling price is about US\$ 185,000 per unit, depending on load capacity, navigation system (laser SLAM, magnetic guidance, QR-based positioning), cleanroom class compliance (ISO Class 3–6), and integration with fab automation systems. Gross margins typically range from 30% to 45%, influenced by customization level, software control capability, and long-term maintenance contracts. A Cleanroom Automated Guided Vehicle (AGV) is a material handling robot specifically engineered to operate within controlled cleanroom environments such as semiconductor fabs, flat panel display factories, and pharmaceutical production facilities. These AGVs are designed with low particle emission structures, sealed drive systems, anti-static materials, and precise motion control to meet strict contamination control standards. They are used to transport wafers, FOUPs, reticles, and process materials between tools and storage systems, forming a critical component of automated material handling systems (AMHS). Cleanroom AGVs enhance throughput efficiency, reduce human intervention, and support high-mix, high-volume manufacturing environments.

Upstream includes motion control modules, laser navigation systems, battery systems, and industrial control software. Key automation suppliers include Daifuku, Murata Machinery, and KUKA. Midstream involves system integration, customization for

semiconductor fab layouts, and AMHS software coordination. Downstream customers are semiconductor manufacturers such as TSMC and Samsung Electronics, as well as display panel producers.

The cleanroom AGV market is structurally supported by semiconductor fab automation upgrades and labor cost pressures. As wafer fabs move toward higher levels of factory automation and Industry 4.0 integration, demand for autonomous material handling solutions continues to expand. Compared with conventional AGVs, cleanroom versions require higher engineering precision, contamination control, and system integration capability, creating entry barriers. Growth is particularly strong in regions investing in new semiconductor fabrication plants. Although the market is capital expenditure-driven and subject to semiconductor cycles, long-term structural demand for fully automated fabs is expected to sustain high-single-digit growth over the next five years.

This report is a detailed and comprehensive analysis for global Automated Guided Vehicle for Cleanroom market. Both quantitative and qualitative analyses are presented by manufacturers, by region & country, by Type and by Application. As the market is constantly changing, this report explores the competition, supply and demand trends, as well as key factors that contribute to its changing demands across many markets. Company profiles and product examples of selected competitors, along with market share estimates of some of the selected leaders for the year 2025, are provided.

Key Features:

Global Automated Guided Vehicle for Cleanroom market size and forecasts, in consumption value (\$ Million), sales quantity (Units), and average selling prices (K US\$/Unit), 2021-2032

Global Automated Guided Vehicle for Cleanroom market size and forecasts by region and country, in consumption value (\$ Million), sales quantity (Units), and average selling prices (K US\$/Unit), 2021-2032

Global Automated Guided Vehicle for Cleanroom market size and forecasts, by Type and by Application, in consumption value (\$ Million), sales quantity (Units), and average selling prices (K US\$/Unit), 2021-2032

Global Automated Guided Vehicle for Cleanroom market shares of main players, shipments in revenue (\$ Million), sales quantity (Units), and ASP (K US\$/Unit), 2021-2026

The Primary Objectives in This Report Are:

- To determine the size of the total market opportunity of global and key countries
- To assess the growth potential for Automated Guided Vehicle for Cleanroom
- To forecast future growth in each product and end-use market
- To assess competitive factors affecting the marketplace

This report profiles key players in the global Automated Guided Vehicle for Cleanroom market based on the following parameters - company overview, sales quantity, revenue, price, gross margin, product portfolio, geographical presence, and key developments. Key companies covered as a part of this study include Dematic, Daifuku, Toyota Industries Corporation, Swisslog, Rocla, SSI Schaefer, Siasun Robot & Automation Co., Ltd, Meidensha, Huaxiao Precision Industry (Suzhou) Co., Ltd., Guangdong Jaten Robot & Automation Co.,Ltd., etc.

This report also provides key insights about market drivers, restraints, opportunities, new product launches or approvals.

Market Segmentation

Automated Guided Vehicle for Cleanroom market is split by Type and by Application. For the period 2021-2032, the growth among segments provides accurate calculations and forecasts for consumption value by Type, and by Application in terms of volume and value. This analysis can help you expand your business by targeting qualified niche markets.

Market segment by Type

Magnetic Stripe

Laser

SLAM-based

QR Code

Market segment by Load Capacity

Light-duty (1000 kg)

Market segment by Application

Semiconductor

Food & Beverage

Pharmaceutical

Others

Major players covered

Dematic

Daifuku

Toyota Industries Corporation

Swisslog

Rocla

SSI Schaefer

Siasun Robot & Automation Co., Ltd

Meidensha

Huaxiao Precision Industry (Suzhou) Co., Ltd.

Guangdong Jaten Robot & Automation Co.,Ltd.

JBT

Ek Robotics

Yonegy

Aichikikai

KSEC Intelligent Technology Co.,Ltd

Atab

AGVE Group

Market segment by region, regional analysis covers

North America (United States, Canada, and Mexico)

Europe (Germany, France, United Kingdom, Russia, Italy, and Rest of Europe)

Asia-Pacific (China, Japan, Korea, India, Southeast Asia, and Australia)

South America (Brazil, Argentina, Colombia, and Rest of South America)

Middle East & Africa (Saudi Arabia, UAE, Egypt, South Africa, and Rest of Middle East & Africa)

The content of the study subjects, includes a total of 15 chapters:

Chapter 1, to describe Automated Guided Vehicle for Cleanroom product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of Automated Guided Vehicle for Cleanroom, with price, sales quantity, revenue, and global market share of Automated Guided Vehicle for Cleanroom from 2021 to 2026.

Chapter 3, the Automated Guided Vehicle for Cleanroom competitive situation, sales quantity, revenue, and global market share of top manufacturers are analyzed emphatically by landscape contrast.

Chapter 4, the Automated Guided Vehicle for Cleanroom breakdown data are shown at the regional level, to show the sales quantity, consumption value, and growth by regions, from 2021 to 2032.

Chapter 5 and 6, to segment the sales by Type and by Application, with sales market

share and growth rate by Type, by Application, from 2021 to 2032.

Chapter 7, 8, 9, 10 and 11, to break the sales data at the country level, with sales quantity, consumption value, and market share for key countries in the world, from 2021 to 2026. and Automated Guided Vehicle for Cleanroom market forecast, by regions, by Type, and by Application, with sales and revenue, from 2027 to 2032.

Chapter 12, market dynamics, drivers, restraints, trends, and Porters Five Forces analysis.

Chapter 13, the key raw materials and key suppliers, and industry chain of Automated Guided Vehicle for Cleanroom.

Chapter 14 and 15, to describe Automated Guided Vehicle for Cleanroom sales channel, distributors, customers, research findings and conclusion.

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