

# Global AGV & AMR Controllers Market Growth 2026-2032

<https://marketpublishers.com/r/G702828319DAEN.html>

Date: May 2026

Pages: 126

Price: US\$ 3,660.00 (Single User License)

ID: G702828319DAEN

## Abstracts

The global AGV & AMR Controllers market size is predicted to grow from US\$ 47.12 million in 2025 to US\$ 127 million in 2032; it is expected to grow at a CAGR of 15.2% from 2026 to 2032.

The AGV & AMR controller is the core computing and control platform used to manage and coordinate various subsystems of the autonomous mobile robot. It integrates sensor data acquisition, navigation and positioning, path planning, power control, and safety monitoring functions, enabling the robot to perform autonomous handling, delivery, and transportation tasks in warehouses, factories, or logistics parks. The controller typically includes an embedded processor, motion control module, communication interface, and safety redundancy mechanisms, and is a crucial component for achieving high-precision, high-reliability autonomous operation of the mobile robot. This platform supports multi-sensor fusion (LiDAR, vision, inertial navigation, etc.) and is compatible with upper-level scheduling systems, enabling multi-machine collaboration and remote management. It is an indispensable core technology for modern intelligent logistics and automated factories. In 2025, the global production of AGV & AMR controllers is estimated at 30,000 units, with an average price of approximately US\$1,605.63 per unit and a gross profit margin of 80.5%.

The growing demand for flexible automation in the manufacturing and logistics industries is the core driver of the AGV/AMR market expansion. The widespread adoption of digital production line upgrades in the manufacturing sector, particularly in the 3C, automotive, and pharmaceutical industries, has led to a significant increase in investment in highly reliable autonomous mobile logistics. The demand for dynamic obstacle avoidance and real-time path planning capabilities in warehouse automation makes AMR solutions based on advanced controllers increasingly popular among

system integrators and end customers. Simultaneously, rising labor costs and stringent requirements for operational efficiency from enterprises are creating long-term demand for AMR controller products. Despite rapid market development, the industry still faces challenges from imbalances in technology and the industrial chain. The reliance on imports for core navigation sensors and high-performance computing platforms leads to significant fluctuations in delivery cycles and prices. Controller products have high standardization requirements in terms of safety, real-time performance, and ecosystem compatibility, resulting in long market acceptance cycles. Furthermore, the varying needs of different application scenarios exacerbate the risk of product line fragmentation, placing considerable pressure on small and medium-sized suppliers in terms of R&D investment and large-scale expansion. Downstream demand is expanding from traditional warehousing and logistics to more manufacturing and service scenarios. Manufacturing companies are deploying AMRs in flexible production and assembly lines to achieve multi-machine collaboration and dynamic task scheduling, while the demands of cross-border e-commerce and cold chain logistics for all-weather autonomous navigation capabilities are driving controller performance iterations. In addition, with the rise of the RaaS (Robots as a Service) model, controller software upgrades and lifecycle services have become new business growth points.

LP Information, Inc. (LPI) ' newest research report, the "AGV & AMR Controllers Industry Forecast" looks at past sales and reviews total world AGV & AMR Controllers sales in 2025, providing a comprehensive analysis by region and market sector of projected AGV & AMR Controllers sales for 2026 through 2032. With AGV & AMR Controllers sales broken down by region, market sector and sub-sector, this report provides a detailed analysis in US\$ millions of the world AGV & AMR Controllers industry.

This Insight Report provides a comprehensive analysis of the global AGV & AMR Controllers landscape and highlights key trends related to product segmentation, company formation, revenue, and market share, latest development, and M&A activity. This report also analyzes the strategies of leading global companies with a focus on AGV & AMR Controllers portfolios and capabilities, market entry strategies, market positions, and geographic footprints, to better understand these firms' unique position in an accelerating global AGV & AMR Controllers market.

This Insight Report evaluates the key market trends, drivers, and affecting factors shaping the global outlook for AGV & AMR Controllers and breaks down the forecast by Type, by Application, geography, and market size to highlight emerging pockets of opportunity. With a transparent methodology based on hundreds of bottom-up

qualitative and quantitative market inputs, this study forecast offers a highly nuanced view of the current state and future trajectory in the global AGV & AMR Controllers.

This report presents a comprehensive overview, market shares, and growth opportunities of AGV & AMR Controllers market by product type, application, key manufacturers and key regions and countries.

#### Segmentation by Type:

General-purpose Mobile Robot Controllers

Differential Mobile Robot Controllers

Forklift Mobile Robot Controllers

#### Segmentation by Integration:

System Integration

Standard Hardware

#### Segmentation by Computing Power:

Low Computing Power

High Computing Power

#### Segmentation by Application:

Warehouse Logistics

Manufacturing Automation

Healthcare & Service

Others

This report also splits the market by region:

### Americas

United States

Canada

Mexico

Brazil

### APAC

China

Japan

Korea

Southeast Asia

India

Australia

### Europe

Germany

France

UK

Italy

Russia

## Middle East & Africa

Egypt

South Africa

Israel

Turkey

GCC Countries

The below companies that are profiled have been selected based on inputs gathered from primary experts and analysing the company's coverage, product portfolio, its market penetration.

KUKA

ABB

Kollmorgen

ADVANCED Motion Controls

AGV Motor

SEER Robotics

Lenovo Group

Zhe Jiang Cotek Robotics.,Ltd.

Shenzhen EGO Robotics Co., Ltd.

Cdhlzn

Bothwin (China) Limited.

Intellichip Robot

Zhejiang Kecong Control Technology Co., Ltd.

Geju Tech

Hangzhou Hikrobot Technology Co.Ltd

SIASUN Robot & Automation CO.,Ltd.

### **Key Questions Addressed in this Report**

What is the 10-year outlook for the global AGV & AMR Controllers market?

What factors are driving AGV & AMR Controllers market growth, globally and by region?

Which technologies are poised for the fastest growth by market and region?

How do AGV & AMR Controllers market opportunities vary by end market size?

How does AGV & AMR Controllers break out by Type, by Application?

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