

Global AGV/AMR Robot Controller Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global AGV/AMR Robot Controller market size is expected to reach \$ 953 million by 2032, rising at a market growth of 18.1% CAGR during the forecast period (2026-2032).

AGV/AMR Robot Controller refers to the core control system that manages the operation, navigation, and coordination of Automated Guided Vehicles (AGVs) and Autonomous Mobile Robots (AMRs) within industrial, warehouse, logistics, or commercial environments. The controller integrates sensors, software algorithms, motor drives, and communication modules to ensure precise path planning, obstacle avoidance, fleet coordination, and real-time task execution. It enables robots to operate autonomously or semi-autonomously, optimizing material transport efficiency, reducing human intervention, and improving safety and productivity in complex operational environments. Controllers may be embedded within the robot, distributed across multiple units, or centralized to manage an entire fleet depending on the system architecture.

AGV/AMR robot controllers are widely used across manufacturing plants, warehouses, logistics hubs, hospitals, retail facilities, and other commercial or industrial sites. Depending on functional requirements, controllers may support navigation via LiDAR, vision-based systems, magnetic tracks, or floor markers. They often integrate fleet management software, traffic coordination algorithms, and remote monitoring capabilities. Advanced controllers can support multi-robot collaboration, AI-based optimization, predictive maintenance, and data analytics for intelligent warehouse and smart factory operations. With rapid growth in automation and smart logistics, AGV/AMR robot controllers are increasingly evolving toward modularity, high computing capability, connectivity, and intelligent decision-making features.

In 2025, global AGV/AMR Robot Controller production reached approximately 161 thousand units, with an average market price of around US\$1,620 per unit.

The global AGV/AMR Robot Controller market has witnessed rapid growth in recent years driven by increasing automation adoption, the rise of smart warehouses, and the demand for efficient logistics and manufacturing operations. AGV and AMR systems are increasingly deployed in manufacturing, e-commerce fulfillment centers, pharmaceuticals, healthcare, and retail industries to reduce labor costs, improve material handling efficiency, and enhance operational safety. Controllers are critical for enabling autonomous navigation, real-time fleet coordination, and intelligent task execution, serving as the central hub for robot communication and control.

Several factors are fueling market expansion. Growing adoption of automated warehouses, Industry 4.0 initiatives, and smart factory setups is driving demand for high-performance controllers capable of precise navigation, dynamic obstacle avoidance, and multi-robot coordination. Increasing investment in AI, IoT connectivity, and cloud-based fleet management systems is further enhancing controller functionalities, including predictive maintenance, real-time monitoring, and data analytics. Moreover, demand for faster deployment, modularity, and scalability of AGV/AMR fleets is promoting development of integrated and distributed control solutions.

From a regional perspective, Asia-Pacific remains the largest market due to rapid industrialization, high manufacturing output, and strong adoption of warehouse automation in China, Japan, South Korea, and India. Europe maintains significant demand supported by advanced manufacturing, automotive industry automation, and smart logistics investments. North America also shows steady growth driven by warehouse automation, e-commerce expansion, and the adoption of intelligent mobility solutions. Emerging markets are gradually increasing adoption as companies seek to optimize material handling, reduce labor dependency, and implement smart manufacturing practices.

Despite favorable growth prospects, the industry faces several challenges, including high initial investment costs, integration complexity with existing warehouse management systems, cybersecurity concerns, and interoperability issues between different robot platforms. Suppliers are under pressure to deliver reliable, flexible, and scalable controller solutions while balancing cost-efficiency and high-performance standards. Competition among global AGV/AMR controller manufacturers remains intense, particularly in high-end, AI-enabled, and multi-robot coordination solutions.

Future industry trends are expected to focus on AI-driven intelligent control, cloud-connected fleet management, edge computing integration, modular and scalable controller architectures, predictive analytics, and enhanced human-robot collaboration features. Manufacturers are increasingly investing in embedded AI, wireless communication, autonomous navigation algorithms, and cybersecurity solutions to improve controller capabilities, fleet efficiency, and overall automation performance.

This report studies the global AGV/AMR Robot Controller production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for AGV/AMR Robot Controller and provides market size (US\$ million) and Year-over-Year (YoY) Growth, considering 2025 as the base year. This report explores demand trends and competition, as well as details the characteristics of AGV/AMR Robot Controller that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global AGV/AMR Robot Controller total production and demand, 2021-2032, (K Units)

Global AGV/AMR Robot Controller total production value, 2021-2032, (USD Million)

Global AGV/AMR Robot Controller production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (K Units), (based on production site)

Global AGV/AMR Robot Controller consumption by region & country, CAGR, 2021-2032 & (K Units)

U.S. VS China: AGV/AMR Robot Controller domestic production, consumption, key domestic manufacturers and share

Global AGV/AMR Robot Controller production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (K Units)

Global AGV/AMR Robot Controller production by Type, production, value, CAGR, 2021-2032, (USD Million) & (K Units)

Global AGV/AMR Robot Controller production by Application, production, value, CAGR, 2021-2032, (USD Million) & (K Units)

This report profiles key players in the global AGV/AMR Robot Controller market based on the following parameters - company overview, production, value, price, gross margin, product portfolio, geographical presence, and key developments. Key companies covered as a part of this study include ABB, KUKA, Yaskawa, Omron, Kollmorgen, BlueBotics, Bosch Rexroth, Siemens, Beckhoff, SEER Robotics, etc.

This report also provides key insights about market drivers, restraints, opportunities,

new product launches or approvals.

Stakeholders would have ease in decision-making through various strategy matrices used in analyzing the World AGV/AMR Robot Controller market

Detailed Segmentation:

Each section contains quantitative market data including market by value (US\$ Millions), volume (production, consumption) & (K Units) and average price (US\$/Unit) by manufacturer, by Type, and by Application. Data is given for the years 2021-2032 by year with 2025 as the base year, 2026 as the estimate year, and 2027-2032 as the forecast year.

Global AGV/AMR Robot Controller Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global AGV/AMR Robot Controller Market, Segmentation by Type:

EmbeddedController

IntegratedRobotController

DistributedController

CentralizedFleetController

Global AGV/AMR Robot Controller Market, Segmentation by Robot Type:

AGV Controller

AMR Controller

Forklift Robot Controller

Others

Global AGV/AMR Robot Controller Market, Segmentation by Application:

Manufacturing

Warehousing & Logistics

Healthcare

Retail & Commercial

Transportation & Infrastructure

Others

Companies Profiled:

ABB

KUKA

Yaskawa

Omron

Kollmorgen

BlueBotics

Bosch Rexroth

Siemens

Beckhoff

SEER Robotics

Hikrobot

Geek+

Quicktron

ForwardX Robotics

VisionNav Robotics

Googol Technology

Key Questions Answered:

1. How big is the global AGV/AMR Robot Controller market?
2. What is the demand of the global AGV/AMR Robot Controller market?
3. What is the year over year growth of the global AGV/AMR Robot Controller market?
4. What is the production and production value of the global AGV/AMR Robot Controller market?
5. Who are the key producers in the global AGV/AMR Robot Controller market?
6. What are the growth factors driving the market demand?

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