

# Global AMR Controller Supply, Demand and Key Producers, 2026-2032

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## Abstracts

The global AMR Controller market size is expected to reach \$ 413 million by 2032, rising at a market growth of 19.7% CAGR during the forecast period (2026-2032).

AMR Controller refers to the core control system used in Autonomous Mobile Robots (AMRs) to manage navigation, localization, motion control, perception, communication, and task execution. The controller integrates processors, navigation algorithms, sensor interfaces, communication modules, and motion control systems to enable robots to autonomously perceive their environment, generate maps, plan routes, avoid obstacles, and execute transportation or service tasks. It functions as the central intelligence unit of the AMR, coordinating real-time data from LiDAR, cameras, inertial sensors, and other devices to ensure safe, efficient, and reliable autonomous operation in dynamic environments.

AMR controllers are widely used in warehouse logistics, manufacturing facilities, healthcare institutions, commercial environments, and service robotics applications. Depending on operational requirements, controllers may support SLAM navigation, machine vision, artificial intelligence algorithms, fleet management systems, cloud connectivity, and wireless communication technologies. Advanced controllers can also enable multi-robot collaboration, intelligent task scheduling, autonomous decision-making, and predictive maintenance. As mobile robotics technology continues to evolve, AMR controllers are increasingly developing toward higher computing power, greater autonomy, enhanced connectivity, and stronger intelligent processing capabilities.

In 2025, global AMR Controller production reached approximately 62.1 thousand units, with an average market price of around US\$1,680 per unit.

The global AMR Controller market has experienced rapid growth in recent years driven by increasing adoption of warehouse automation, expansion of e-commerce logistics, and rising demand for flexible material handling solutions. As companies seek to improve operational efficiency, reduce labor dependency, and optimize intralogistics processes, AMRs are being widely deployed across warehouses, factories, distribution centers, hospitals, and commercial facilities. The controller serves as the technological core of these robots, enabling autonomous navigation, intelligent decision-making, and efficient task execution.

Several factors are supporting market expansion. The rapid growth of e-commerce and smart logistics is increasing demand for autonomous mobile robots capable of operating in dynamic environments without fixed infrastructure. At the same time, advancements in SLAM technology, machine vision, artificial intelligence, edge computing, and wireless communication are continuously improving controller performance and expanding application scenarios. Increasing demand for flexible manufacturing and intelligent warehouse operations is also driving adoption of advanced AMR control systems that support real-time route optimization and multi-robot collaboration.

From a regional perspective, Asia-Pacific remains the largest market due to strong growth in warehouse automation, manufacturing modernization, and robotics investment, particularly in China, Japan, South Korea, and other industrial economies. North America maintains significant demand supported by e-commerce expansion, logistics automation, and increasing adoption of autonomous robotics technologies. Europe also represents an important market driven by smart factory development, labor efficiency requirements, and industrial digitalization initiatives. Emerging markets are gradually increasing adoption as automation technologies become more accessible and cost-effective.

Despite favorable growth prospects, the industry faces several challenges. High development costs, software complexity, navigation accuracy requirements, and cybersecurity concerns continue to increase technical barriers. In addition, customers expect controllers to deliver greater reliability, scalability, interoperability, and intelligent functionality while maintaining cost competitiveness. Suppliers must continuously improve algorithms, computing performance, and system stability to address increasingly complex operational environments.

Future industry trends are expected to focus on AI-driven navigation, autonomous decision-making, cloud-based fleet management, digital twin integration, edge intelligence, and enhanced multi-robot coordination capabilities. Manufacturers are

investing heavily in advanced perception technologies, intelligent software platforms, and high-performance computing architectures to improve AMR efficiency, adaptability, and operational autonomy across a growing range of industrial and commercial applications.

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

This report is a detailed and comprehensive analysis of the world market for AMR 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 AMR Controller that contribute to its increasing demand across many markets.

#### Highlights and key features of the study

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

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

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

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

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

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

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

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

This report profiles key players in the global AMR 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 AMR 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 AMR Controller Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

#### Global AMR Controller Market, Segmentation by Type:

EmbeddedController

IntegratedRobotController

DistributedController

CentralizedFleetController

### Global AMR Controller Market, Segmentation by Function:

Navigation Controller

Motion Control Controller

Fleet Management Controller

Perception & Obstacle Avoidance Controller

### Global AMR 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 AMR Controller market?
2. What is the demand of the global AMR Controller market?
3. What is the year over year growth of the global AMR Controller market?
4. What is the production and production value of the global AMR Controller market?
5. Who are the key producers in the global AMR Controller market?
6. What are the growth factors driving the market demand?

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