

Global AMR Controller 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 AMR Controller market size was valued at US\$ 107 million in 2025 and is forecast to a readjusted size of US\$ 413 million by 2032 with a CAGR of 19.7% during review period.

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 is a detailed and comprehensive analysis for global AMR Controller 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 AMR Controller market size and forecasts, in consumption value (\$ Million), sales quantity (K Units), and average selling prices (US\$/Unit), 2021-2032

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

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

Global AMR Controller market shares of main players, shipments in revenue (\$ Million), sales quantity (K Units), and ASP (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 AMR Controller

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 AMR Controller 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 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.

Market Segmentation

AMR Controller 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

EmbeddedController

IntegratedRobotController

DistributedController

CentralizedFleetController

Market segment by Function

Navigation Controller

Motion Control Controller

Fleet Management Controller

Perception & Obstacle Avoidance Controller

Market segment by Application

Manufacturing

Warehousing & Logistics

Healthcare

Retail & Commercial

Transportation & Infrastructure

Others

Major players covered

ABB

KUKA

Yaskawa

Omron

Kollmorgen

BlueBotics

Bosch Rexroth

Siemens

Beckhoff

SEER Robotics

Hikrobot

Geek+

Quicktron

ForwardX Robotics

VisionNav Robotics

Googol Technology

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 AMR Controller product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of AMR Controller, with price, sales quantity, revenue, and global market share of AMR Controller from 2021 to 2026.

Chapter 3, the AMR Controller competitive situation, sales quantity, revenue, and global market share of top manufacturers are analyzed emphatically by landscape contrast.

Chapter 4, the AMR Controller 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 AMR Controller 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 AMR Controller.

Chapter 14 and 15, to describe AMR Controller sales channel, distributors, customers, research findings and conclusion.

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