

Global Mobile Robot Controllers 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 Mobile Robot Controllers market size was valued at US\$ 49.56 million in 2025 and is forecast to a readjusted size of US\$ 127 million by 2032 with a CAGR of 14.4% during review period.

Mobile Robot Controllers are the core computing and control platform used to manage and coordinate various subsystems of autonomous mobile robots. They integrate sensor data acquisition, navigation and positioning, path planning, power control, and safety monitoring functions, enabling robots to perform autonomous handling, delivery, and transportation tasks in warehouses, factories, or logistics parks. Controllers typically include embedded processors, motion control modules, communication interfaces, and safety redundancy mechanisms, and are a key component for achieving high-precision, high-reliability autonomous operation of mobile robots. 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 Mobile Robot 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.

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

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

Global Mobile Robot Controllers market size and forecasts, by Type and by Application, in consumption value (\$ Million), sales quantity (K Units), and average selling prices (K

US\$/Unit), 2021-2032

Global Mobile Robot Controllers market shares of main players, shipments in revenue (\$ Million), sales quantity (K 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 Mobile Robot Controllers

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 Mobile Robot Controllers 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 KUKA, ABB, Kollmorgen, ADVANCED Motion Controls, AGV Motor, SEER Robotics, Lenovo Group, Zhe Jiang Cotek Robotics.,Ltd., Shenzhen EGO Robotics Co., Ltd., Cdhln, etc.

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

Market Segmentation

Mobile Robot Controllers 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

General-purpose Mobile Robot Controllers

Differential Mobile Robot Controllers

Forklift Mobile Robot Controllers

Market segment by Integration

System Integration

Standard Hardware

Market segment by Computing Power

Low Computing Power

High Computing Power

Market segment by Application

Warehouse Logistics

Manufacturing Automation

Healthcare & Service

Others

Major players covered

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.

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 Mobile Robot Controllers product scope, market overview, market estimation caveats and base year.

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

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

Chapter 4, the Mobile Robot Controllers 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 Mobile Robot Controllers 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 Mobile Robot Controllers.

Chapter 14 and 15, to describe Mobile Robot Controllers sales channel, distributors, customers, research findings and conclusion.

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