

Global 5G Autonomous Mobile Robot Market 2025 by Manufacturers, Regions, Type and Application, Forecast to 2031

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Abstracts

According to our (Global Info Research) latest study, the global 5G Autonomous Mobile Robot market size was valued at US\$ 2628 million in 2024 and is forecast to a readjusted size of USD 3629 million by 2031 with a CAGR of 4.0% during review period.

In this report, we will assess the current U.S. tariff framework alongside international policy adaptations, analyzing their effects on competitive market structures, regional economic dynamics, and supply chain resilience.

5G Autonomous Mobile Robot (AMR) is an advanced intelligent mobile robotic system that utilizes 5G network's ultra-low latency, high bandwidth, and massive connectivity capabilities. By integrating AI navigation technologies (including SLAM and deep learning), multi-sensor fusion (LiDAR, visual cameras, IMU, etc.), and cloud-based coordinated control, it achieves precise positioning, dynamic path planning, autonomous obstacle avoidance, and real-time task scheduling in complex environments.

Typical applications span intelligent manufacturing (such as flexible production line logistics), warehouse automation (as an upgraded AGV solution), medical delivery, and outdoor inspection. Compared to traditional AMRs, 5G AMRs feature enhanced cloud computing support, superior multi-robot coordination capabilities, and real-time remote operation functionality. Industry leaders including Geek+ and Hikrobot are actively promoting the industrial implementation of 5G+AMR solutions.

This report is a detailed and comprehensive analysis for global 5G Autonomous Mobile Robot 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 5G Autonomous Mobile Robot market size and forecasts, in consumption value (\$ Million), sales quantity (Units), and average selling prices (US\$/Unit), 2020-2031

Global 5G Autonomous Mobile Robot market size and forecasts by region and country, in consumption value (\$ Million), sales quantity (Units), and average selling prices (US\$/Unit), 2020-2031

Global 5G Autonomous Mobile Robot market size and forecasts, by Type and by Application, in consumption value (\$ Million), sales quantity (Units), and average selling prices (US\$/Unit), 2020-2031

Global 5G Autonomous Mobile Robot market shares of main players, shipments in revenue (\$ Million), sales quantity (Units), and ASP (US\$/Unit), 2020-2025

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 5G Autonomous Mobile Robot
- 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 5G Autonomous Mobile Robot 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 Robotnik, Lianhe Technology, Milvus Robotics, ForwardX, Clearpath Robotics, Hangzhou Iplusrobot Technology, Quicktron Robotics, Zhejiang Huaray Technology, Zhejiang Guozi Robotics, ABB, etc. This report also provides key insights about market drivers, restraints, opportunities, new product launches or approvals.

Market Segmentation

5G Autonomous Mobile Robot market is split by Type and by Application. For the period 2020-2031, 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

Latent Type

Transfer Type

Others

Market segment by Application

Industrial Manufacturing

Logistics and Warehousing

Medical

Others

Major players covered

Robotnik

Lianhe Technology

Milvus Robotics

ForwardX

Clearpath Robotics

Hangzhou Iplusmobot Technology

Quicktron Robotics

Zhejiang Huaray Technology

Zhejiang Guozi Robotics

ABB

Mobile Industrial Robots

Youibot Robotics

Siasun Robot & Automation

Omron

Beijing Geekplus Technology

Hikrobot

KUKA AG

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 5G Autonomous Mobile Robot product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of 5G Autonomous Mobile Robot, with price, sales quantity, revenue, and global market share of 5G Autonomous Mobile Robot from 2020 to 2025.

Chapter 3, the 5G Autonomous Mobile Robot competitive situation, sales quantity,

revenue, and global market share of top manufacturers are analyzed emphatically by landscape contrast.

Chapter 4, the 5G Autonomous Mobile Robot breakdown data are shown at the regional level, to show the sales quantity, consumption value, and growth by regions, from 2020 to 2031.

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 2020 to 2031.

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 2020 to 2025. and 5G Autonomous Mobile Robot market forecast, by regions, by Type, and by Application, with sales and revenue, from 2026 to 2031.

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 5G Autonomous Mobile Robot.

Chapter 14 and 15, to describe 5G Autonomous Mobile Robot sales channel, distributors, customers, research findings and conclusion.

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