

Global Heavy-duty AMR Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global Heavy-duty AMR market size is expected to reach \$ 543 million by 2032, rising at a market growth of 13.2% CAGR during the forecast period (2026-2032). In 2025, global production of heavy-load AMRs reached approximately 5,870 units, with an average selling price of around USD 34,200 per unit. Heavy-load AMRs are autonomous mobile robots designed primarily for logistics warehouses, factory workshops, and heavy material handling scenarios. They feature autonomous navigation, obstacle avoidance, route planning, and the capability to transport large items. Emphasizing high load capacity and intelligent control, these AMRs operate efficiently in complex environments, improving handling efficiency and reducing labor costs, making them essential equipment in smart warehousing, industrial automation, and large-scale logistics centers.

Currently, the market for heavy-load AMRs is experiencing rapid growth, driven mainly by increasing demand for efficient, automated handling equipment in e-commerce warehouses, industrial manufacturing, and large-scale logistics centers. From a market perspective, this segment has high technical barriers, with core competencies including navigation accuracy, load stability, and system integration capability, and customers are concentrated among large-scale logistics and industrial enterprises. In terms of trends, the industry is moving toward higher load capacity, smarter path planning, longer battery life, and multi-robot collaboration, while emphasizing safety and stability in complex environments. Market perspectives suggest that as smart logistics, Industry 4.0, and intelligent factories continue to advance, application scenarios and market potential for heavy-load AMRs will expand, with competitiveness centered on load capacity, operational reliability, and overall system optimization.

This report studies the global Heavy-duty AMR production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for Heavy-duty

AMR 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 Heavy-duty AMR that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global Heavy-duty AMR total production and demand, 2021-2032, (Units)

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

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

Global Heavy-duty AMR consumption by region & country, CAGR, 2021-2032 & (Units)

U.S. VS China: Heavy-duty AMR domestic production, consumption, key domestic manufacturers and share

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

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

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

This report profiles key players in the global Heavy-duty AMR 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 Hikrobot, Beijing Geekplus Technology, SIASUN Robot & Automation, Youibot Robotics, Mobile Industrial Robots, ABB, Zhejiang Guozi Robotics, Omron, Zhejiang HuaRay Technology, Clearpath 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 Heavy-duty AMR market

Detailed Segmentation:

Each section contains quantitative market data including market by value (US\$ Millions), volume (production, consumption) & (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 Heavy-duty AMR Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Heavy-duty AMR Market, Segmentation by Type:

1T-5T

?5T

Global Heavy-duty AMR Market, Segmentation by Automation:

Semi-Autonomous

Fully Autonomous

Global Heavy-duty AMR Market, Segmentation by Drive Type:

Omni-Directional Wheel

Tracked

Global Heavy-duty AMR Market, Segmentation by Application:

Industrial Manufacturing

Logistics Warehousing

Other

Companies Profiled:

Hikrobot

Beijing Geekplus Technology

SIASUN Robot & Automation

Youibot Robotics

Mobile Industrial Robots

ABB

Zhejiang Guozi Robotics

Omron

Zhejiang HuaRay Technology

Clearpath Robotics

Quicktron Robotics

Hangzhou Iplusrobot Technology

ForwardX

KUKA AG

Milvus Robotics

Lianhe Technology

Robotnik

Mairui Robot

Delie Logistics

Lanxin Robotics

Key Questions Answered:

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

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