

Autonomous Mobile Robots Market Research

FIVE-YEAR MARKET ANALYSIS AND TECHNOLOGY FORECAST THROUGH 2023

ONE OF THE FASTEST GROWING MARKETS ARC HAS EVER RESEARCHED

Autonomous mobile robots (AMRs) are a form of automatic guided vehicles (AGVs) that can be implemented without any supporting infrastructure like markers or wires or magnets implanted in the floor or precisely located laser targets.

There are two types of autonomous mobile robots, solutions based on fleet management and solutions that rely on picking optimization. Fleet management solutions typically operate with bigger payloads and route the robots from an origin to a destination. Pick optimization robots integrate the movement of machines and people in a process flow designed to increase picking throughput.

This is one of the fastest growing hardware markets ARC has ever encountered. The growth is fueled by the difficulty in

hiring workers that want to work in warehouses or factories in North America and Europe, the increased flexibility of these solutions, the boom in ecommerce, and significant venture capital investments in many of the suppliers in this market.

Previous research on this market has not properly distinguished between solutions like Kiva robotic knock off solutions, which are not truly autonomous, and the new generation of truly autonomous robots. Further, past research has grouped together fleet management and pick optimization solutions. These solutions are very different and have very different growth rates.

For more information, please visit us at www.arcweb.com/market-studies/.

STRATEGIC ISSUES

AMRs are an exciting technology getting a great deal of attention. Among the issues addressed in this study:

- How do warehouse hiring and retention trends affect the value proposition for autonomous mobile robots?
- What ROI can users expect?
- How will the patents leading suppliers have applied for and been granted affect growth?
- What are the implications of Robot as a Service pricing?
- How is venture capital impacting this market?

RESEARCH FORMATS

This research is available as a Market Intelligence Workbook (Excel) and/or a concise, executive-level Market Analysis Report (PDF), with or without detailed charts.

RESEARCH FOCUS AREAS

STRATEGIC ANALYSIS

Major Trends
Strategies for Buyers
Strategies for Product Suppliers
Market Share Analysis
Market Forecast Analysis

COMPETITIVE ANALYSIS

Market Shares of the Leading Suppliers
Market Shares by Region
North America
Europe, Middle East & Africa
Asia
Latin America
Market Shares by Product Type
Fleet Management
Pick Optimization
Market Shares by Revenue Category
Hardware
Software
Implementation Services
Maintenance Services
Robots as a Service
Software as a Service
Market Shares by Industry
Automotive
Machinery Manufacturing
Logistics Service Provider
Retail

Market Shares by Payload
Each, Carton, Tote
Pallet
Heavy Loads
Market Shares by Customer Tier
Tier 1
Tier 2
Tier 3

MARKET FORECASTS

Total Shipments of AMRs
Shipments by Region
Shipments by Product Type

Shipments by Revenue Category
Shipments by Industry
Shipments by Payload
Shipments by Customer Tier

INDUSTRY PARTICIPANTS

Profiles are provided for leading suppliers, suppliers with significant venture capital investments, and suppliers with interesting solutions and technology. The profiles include a description of the process used by suppliers to support picking.

The Worldwide Autonomous Mobile Robot Market

