

Collaborative Mobile Robotics Market Forecasts to 2034 – Global Analysis By Product (Collaborative Mobile Robots, Autonomous Mobile Robots, Collaborative Autonomous Mobile Robots, Mobile Manipulators, Mobile Robotic Arms, Autonomous Transport Robots), Component, Mobility, Application, End User and By Geography

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Abstracts

According to Statistics MRC, the Global Collaborative Mobile Robotics Market is accounted for \$6.2 billion in 2026 and is expected to reach \$16.8 billion by 2034 growing at a CAGR of 13.2% during the forecast period. Collaborative mobile robotics refers to autonomous or semi-autonomous robotic systems that can safely navigate and operate alongside human workers in shared industrial environments. These robots, including autonomous mobile robots and mobile manipulators, integrate navigation systems, sensors, cameras, and robotic arms to perform tasks such as material transport, picking, and assembly. They are designed to enhance productivity, flexibility, and safety in manufacturing and logistics operations.

Market Dynamics:

Driver:

Growing Demand for Flexible Automation

The increasing need for flexible automation in manufacturing and logistics, driven by shorter product lifecycles and changing consumer demands, is accelerating the adoption of collaborative mobile robots. These robots can be easily reconfigured for

different tasks and production layouts, offering greater flexibility than traditional fixed automation. The ability to operate safely alongside humans reduces the need for safety barriers and enables closer collaboration, thereby increasing operational efficiency.

Restraint:**High Initial Costs and Integration Complexity**

The significant upfront costs associated with purchasing collaborative mobile robots, including robotic arms, navigation systems, and sensors, can be a barrier for smaller operations with limited capital budgets. The complexity of integrating these robots with existing factory infrastructure, warehouse management systems, and enterprise software requires specialized expertise. The need for ongoing maintenance and software updates further adds to operational costs and can slow adoption.

Opportunity:**Expansion into New Applications and Industries**

The development of more versatile and capable collaborative mobile robots is opening new applications beyond traditional material handling, including machine tending, inspection, and assembly. The expansion into new industries, such as healthcare, food processing, and construction, presents significant growth opportunities. The integration of advanced AI and vision systems is enabling robots to perform more complex tasks and adapt to dynamic environments, thereby expanding the addressable market.

Threat:**Safety and Regulatory Compliance Challenges**

Ensuring the safety of human-robot collaboration in dynamic environments remains a significant challenge, with strict regulations and standards that must be met. The risk of accidents and injuries can lead to costly liability and reputational damage, discouraging adoption. Competition from traditional AGVs and fixed automation solutions that are perceived as more reliable or cost-effective poses an ongoing threat to market share.

Covid-19 Impact:

The pandemic initially disrupted supply chains for robotic components and delayed automation projects due to economic uncertainty. During the mid-pandemic period, the need for contactless operations and resilient supply chains drove accelerated adoption of mobile robots. Post-pandemic, the market has seen significant growth as industries invest in automation to address labor shortages and improve operational flexibility.

The collaborative autonomous mobile robots segment is expected to be the largest during the forecast period

The collaborative autonomous mobile robots segment is expected to account for the largest market share during the forecast period, due to their ability to combine the autonomous navigation of AMRs with the safe human interaction of cobots, making them the most versatile and widely applicable solution. This segment benefits from strong demand in warehousing, logistics, and manufacturing for robots that can work safely alongside humans. The continuous innovation in navigation and safety technologies further reinforces their dominance in the collaborative mobile robotics market.

The navigation systems segment is expected to have the highest CAGR during the forecast period

Over the forecast period, the navigation systems segment is predicted to witness the highest growth rate, driven by the increasing sophistication of autonomous navigation technologies, including AI-based mapping, obstacle avoidance, and dynamic path planning, which are critical for mobile robot performance. The development of advanced sensors and algorithms is enabling robots to navigate more complex and dynamic environments. The growing demand for robots that can operate without infrastructure modifications is in turn accelerating the adoption of advanced navigation systems.

Region with largest share:

During the forecast period, the North America region is expected to hold the largest market share, due to the early adoption of automation technologies, strong presence of robotics vendors, and high labor costs in the United States. The availability of skilled talent and supportive government policies further reinforce the region's market leadership.

Region with highest CAGR:

Over the forecast period, the Asia Pacific region is anticipated to exhibit the highest CAGR, due to the rapid industrialization, growing adoption of robotics, and expanding manufacturing and logistics sectors in countries like China, Japan, and India. Government initiatives to promote automation and the need to address labor shortages are key drivers of market growth in this region.

Key players in the market

Some of the key players in Collaborative Mobile Robotics Market include ABB Ltd., FANUC Corporation, Yaskawa Electric Corporation, KUKA AG, Siemens AG, Omron Corporation, Universal Robots A/S, Mobile Industrial Robots A/S, Teradyne, Inc., Rockwell Automation, Inc., Honeywell International Inc., Schneider Electric SE, FedEx Corporation, Amazon.com, Inc., Daifuku Co., Ltd., Interroll Holding AG, Zebra Technologies Corporation and Toyota Industries Corporation.

Key Developments:

In July 2026, ABB launched a collaborative mobile robot integrating AI-based navigation with a high-precision robotic arm, enabling flexible material handling, assembly, and adaptive manufacturing applications.

In May 2026, Universal Robots introduced a mobile manipulator combining its collaborative robotic arm with an autonomous mobile platform, supporting flexible material handling, machine tending, assembly, and industrial automation.

Products Covered:

Collaborative Mobile Robots

Autonomous Mobile Robots

Collaborative Autonomous Mobile Robots

Mobile Manipulators

Mobile Robotic Arms

Autonomous Transport Robots

Components Covered:

Robotic Platforms

Robotic Arms

Navigation Systems

Sensors

Cameras and Vision Systems

Robot Controllers

Mobilities Covered:

Wheeled Robots

Tracked Robots

Legged Robots

Omnidirectional Robots

Differential Drive Robots

Applications Covered:

Material Handling

Picking and Placing

Assembly

Machine Tending

Inspection

End Users Covered:

Automotive

Electronics

Manufacturing

Warehousing and Logistics

Healthcare

Regions Covered:

North America

United States

Canada

Mexico

Europe

United Kingdom

Germany

France

Italy

Spain

Netherlands

Belgium

Sweden

Switzerland

Poland

Rest of Europe

Asia Pacific

China

Japan

India

South Korea

Australia

Indonesia

Thailand

Malaysia

Singapore

Vietnam

Rest of Asia Pacific

South America

Brazil

Argentina

Colombia

Chile

Peru

Rest of South America

Rest of the World (RoW)

Middle East

§ Saudi Arabia

§ United Arab Emirates

§ Qatar

§ Israel

§ Rest of Middle East

Africa

§ South Africa

§ Egypt

§ Morocco

§ Rest of Africa

What our report offers:

Market share assessments for the regional and country-level segments

Strategic recommendations for the new entrants

Covers Market data for the years 2023, 2024, 2025, 2026, 2027, 2028, 2030, 2032 and 2034

Market Trends (Drivers, Constraints, Opportunities, Threats, Challenges, Investment Opportunities, and recommendations)

Strategic recommendations in key business segments based on the market estimations

Competitive landscaping mapping the key common trends

Company profiling with detailed strategies, financials, and recent developments

Supply chain trends mapping the latest technological advancements

Free Customization Offerings:

All the customers of this report will be entitled to receive one of the following free customization options:

Company Profiling

Comprehensive profiling of additional market players (up to 3)

SWOT Analysis of key players (up to 3)

Regional Segmentation

Market estimations, Forecasts and CAGR of any prominent country as per the client's interest (Note: Depends on feasibility check)

Competitive Benchmarking

Benchmarking of key players based on product portfolio, geographical presence, and strategic alliances

Contents

1 EXECUTIVE SUMMARY

- 1.1 Market Snapshot and Key Highlights
- 1.2 Growth Drivers, Challenges, and Opportunities
- 1.3 Competitive Landscape Overview
- 1.4 Strategic Insights and Recommendations

2 RESEARCH FRAMEWORK

- 2.1 Study Objectives and Scope
- 2.2 Stakeholder Analysis
- 2.3 Research Assumptions and Limitations
- 2.4 Research Methodology
 - 2.4.1 Data Collection (Primary and Secondary)
 - 2.4.2 Data Modeling and Estimation Techniques
 - 2.4.3 Data Validation and Triangulation
 - 2.4.4 Analytical and Forecasting Approach

3 MARKET DYNAMICS AND TREND ANALYSIS

- 3.1 Market Definition and Structure
- 3.2 Key Market Drivers
- 3.3 Market Restraints and Challenges
- 3.4 Growth Opportunities and Investment Hotspots
- 3.5 Industry Threats and Risk Assessment
- 3.6 Technology and Innovation Landscape
- 3.7 Emerging and High-Growth Markets
- 3.8 Regulatory and Policy Environment
- 3.9 Impact of COVID-19 and Recovery Outlook

4 COMPETITIVE AND STRATEGIC ASSESSMENT

- 4.1 Porter's Five Forces Analysis
 - 4.1.1 Supplier Bargaining Power
 - 4.1.2 Buyer Bargaining Power
 - 4.1.3 Threat of Substitutes
 - 4.1.4 Threat of New Entrants

- 4.1.5 Competitive Rivalry
- 4.2 Market Share Analysis of Key Players
- 4.3 Product Benchmarking and Performance Comparison

5 GLOBAL COLLABORATIVE MOBILE ROBOTICS MARKET, BY PRODUCT

- 5.1 Collaborative Mobile Robots
- 5.2 Autonomous Mobile Robots
- 5.3 Collaborative Autonomous Mobile Robots
- 5.4 Mobile Manipulators
- 5.5 Mobile Robotic Arms
- 5.6 Autonomous Transport Robots

6 GLOBAL COLLABORATIVE MOBILE ROBOTICS MARKET, BY COMPONENT

- 6.1 Robotic Platforms
- 6.2 Robotic Arms
- 6.3 Navigation Systems
- 6.4 Sensors
- 6.5 Cameras and Vision Systems
- 6.6 Robot Controllers

7 GLOBAL COLLABORATIVE MOBILE ROBOTICS MARKET, BY MOBILITY

- 7.1 Wheeled Robots
- 7.2 Tracked Robots
- 7.3 Legged Robots
- 7.4 Omnidirectional Robots
- 7.5 Differential Drive Robots

8 GLOBAL COLLABORATIVE MOBILE ROBOTICS MARKET, BY APPLICATION

- 8.1 Material Handling
- 8.2 Picking and Placing
- 8.3 Assembly
- 8.4 Machine Tending
- 8.5 Inspection

9 GLOBAL COLLABORATIVE MOBILE ROBOTICS MARKET, BY END USER

- 9.1 Automotive
- 9.2 Electronics
- 9.3 Manufacturing
- 9.4 Warehousing and Logistics
- 9.5 Healthcare

10 GLOBAL COLLABORATIVE MOBILE ROBOTICS MARKET, BY GEOGRAPHY

- 10.1 North America
 - 10.1.1 United States
 - 10.1.2 Canada
 - 10.1.3 Mexico
- 10.2 Europe
 - 10.2.1 United Kingdom
 - 10.2.2 Germany
 - 10.2.3 France
 - 10.2.4 Italy
 - 10.2.5 Spain
 - 10.2.6 Netherlands
 - 10.2.7 Belgium
 - 10.2.8 Sweden
 - 10.2.9 Switzerland
 - 10.2.10 Poland
 - 10.2.11 Rest of Europe
- 10.3 Asia Pacific
 - 10.3.1 China
 - 10.3.2 Japan
 - 10.3.3 India
 - 10.3.4 South Korea
 - 10.3.5 Australia
 - 10.3.6 Indonesia
 - 10.3.7 Thailand
 - 10.3.8 Malaysia
 - 10.3.9 Singapore
 - 10.3.10 Vietnam
 - 10.3.11 Rest of Asia Pacific
- 10.4 South America
 - 10.4.1 Brazil

- 10.4.2 Argentina
- 10.4.3 Colombia
- 10.4.4 Chile
- 10.4.5 Peru
- 10.4.6 Rest of South America
- 10.5 Rest of the World (RoW)
 - 10.5.1 Middle East
 - 10.5.1.1 Saudi Arabia
 - 10.5.1.2 United Arab Emirates
 - 10.5.1.3 Qatar
 - 10.5.1.4 Israel
 - 10.5.1.5 Rest of Middle East
 - 10.5.2 Africa
 - 10.5.2.1 South Africa
 - 10.5.2.2 Egypt
 - 10.5.2.3 Morocco
 - 10.5.2.4 Rest of Africa

11 STRATEGIC MARKET INTELLIGENCE

- 11.1 Industry Value Network and Supply Chain Assessment
- 11.2 White-Space and Opportunity Mapping
- 11.3 Product Evolution and Market Life Cycle Analysis
- 11.4 Channel, Distributor, and Go-to-Market Assessment

12 INDUSTRY DEVELOPMENTS AND STRATEGIC INITIATIVES

- 12.1 Mergers and Acquisitions
- 12.2 Partnerships, Alliances, and Joint Ventures
- 12.3 New Product Launches and Certifications
- 12.4 Capacity Expansion and Investments
- 12.5 Other Strategic Initiatives

13 COMPANY PROFILES

- 13.1 ABB Ltd.
- 13.2 FANUC Corporation
- 13.3 Yaskawa Electric Corporation
- 13.4 KUKA AG

- 13.5 Siemens AG
- 13.6 Omron Corporation
- 13.7 Universal Robots A/S
- 13.8 Mobile Industrial Robots A/S
- 13.9 Teradyne, Inc.
- 13.10 Rockwell Automation, Inc.
- 13.11 Honeywell International Inc.
- 13.12 Schneider Electric SE
- 13.13 FedEx Corporation
- 13.14 Amazon.com, Inc.
- 13.15 Daifuku Co., Ltd.
- 13.16 Hannover-based Interroll Holding AG
- 13.17 Zebra Technologies Corporation
- 13.18 Toyota Industries Corporation

List Of Tables

LIST OF TABLES

Table 1 Global Collaborative Mobile Robotics Market Outlook, By Region (2023-2034) (\$MN)

Table 2 Global Collaborative Mobile Robotics Market Outlook, By Product (2023-2034) (\$MN)

Table 3 Global Collaborative Mobile Robotics Market Outlook, By Collaborative Mobile Robots (2023-2034) (\$MN)

Table 4 Global Collaborative Mobile Robotics Market Outlook, By Autonomous Mobile Robots (2023-2034) (\$MN)

Table 5 Global Collaborative Mobile Robotics Market Outlook, By Collaborative Autonomous Mobile Robots (2023-2034) (\$MN)

Table 6 Global Collaborative Mobile Robotics Market Outlook, By Mobile Manipulators (2023-2034) (\$MN)

Table 7 Global Collaborative Mobile Robotics Market Outlook, By Mobile Robotic Arms (2023-2034) (\$MN)

Table 8 Global Collaborative Mobile Robotics Market Outlook, By Autonomous Transport Robots (2023-2034) (\$MN)

Table 9 Global Collaborative Mobile Robotics Market Outlook, By Component (2023-2034) (\$MN)

Table 10 Global Collaborative Mobile Robotics Market Outlook, By Robotic Platforms (2023-2034) (\$MN)

Table 11 Global Collaborative Mobile Robotics Market Outlook, By Robotic Arms (2023-2034) (\$MN)

Table 12 Global Collaborative Mobile Robotics Market Outlook, By Navigation Systems (2023-2034) (\$MN)

Table 13 Global Collaborative Mobile Robotics Market Outlook, By Sensors (2023-2034) (\$MN)

Table 14 Global Collaborative Mobile Robotics Market Outlook, By Cameras and Vision Systems (2023-2034) (\$MN)

Table 15 Global Collaborative Mobile Robotics Market Outlook, By Robot Controllers (2023-2034) (\$MN)

Table 16 Global Collaborative Mobile Robotics Market Outlook, By Mobility (2023-2034) (\$MN)

Table 17 Global Collaborative Mobile Robotics Market Outlook, By Wheeled Robots (2023-2034) (\$MN)

Table 18 Global Collaborative Mobile Robotics Market Outlook, By Tracked Robots

(2023-2034) (\$MN)

Table 19 Global Collaborative Mobile Robotics Market Outlook, By Legged Robots

(2023-2034) (\$MN)

Table 20 Global Collaborative Mobile Robotics Market Outlook, By Omnidirectional Robots (2023-2034) (\$MN)

Table 21 Global Collaborative Mobile Robotics Market Outlook, By Differential Drive Robots (2023-2034) (\$MN)

Table 22 Global Collaborative Mobile Robotics Market Outlook, By Application (2023-2034) (\$MN)

Table 23 Global Collaborative Mobile Robotics Market Outlook, By Material Handling (2023-2034) (\$MN)

Table 24 Global Collaborative Mobile Robotics Market Outlook, By Picking and Placing (2023-2034) (\$MN)

Table 25 Global Collaborative Mobile Robotics Market Outlook, By Assembly (2023-2034) (\$MN)

Table 26 Global Collaborative Mobile Robotics Market Outlook, By Machine Tending (2023-2034) (\$MN)

Table 27 Global Collaborative Mobile Robotics Market Outlook, By Inspection (2023-2034) (\$MN)

Table 28 Global Collaborative Mobile Robotics Market Outlook, By End User (2023-2034) (\$MN)

Table 29 Global Collaborative Mobile Robotics Market Outlook, By Automotive (2023-2034) (\$MN)

Table 30 Global Collaborative Mobile Robotics Market Outlook, By Electronics (2023-2034) (\$MN)

Table 31 Global Collaborative Mobile Robotics Market Outlook, By Manufacturing (2023-2034) (\$MN)

Table 32 Global Collaborative Mobile Robotics Market Outlook, By Warehousing and Logistics (2023-2034) (\$MN)

Table 33 Global Collaborative Mobile Robotics Market Outlook, By Healthcare (2023-2034) (\$MN)

Note: Tables for North America, Europe, APAC, South America, and Rest of the World (RoW) Regions are also represented in the same manner as above.

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