

# **North America Autonomous Mobile Manipulator Robots Market Forecast to 2030 – Regional Analysis – by Type (Differential and Omni-Directional), Payload (3-5 KG, 5-10 KG, 10-20 KG, and 20 KG & Above), Application (Sorting, Pick & Place, Inventory Management, and Others), and End User Industry (Healthcare, Space, Assembly, and Others)**

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## **Abstracts**

The North America autonomous mobile manipulator robots market is expected to grow from US\$ 85.72 million in 2023 to US\$ 404.72 million by 2030. It is estimated to grow at a CAGR of 24.8% from 2023 to 2030.

**Increasing Demand in Industry-Specific Applications Drives North America Autonomous Mobile Manipulator Robots Market**

Many market players are adopting advanced innovative solutions, including automated solutions, to catalyze their business growth. The demand for automation and robotics has been gaining traction in several industries to boost production output. The adoption of AMMR is increasing owing to the rise in automation in the warehouse and manufacturing industries. Further, the rise in demand for chips in phones, vehicles, and robots is influencing market players to automate the production process. In August 2019, KUKA AG launched a mobile manipulator robot as “the world’s first solution from a single source” for wafer handling during semiconductor manufacturing. In addition, AMMR adoption is gaining traction in the healthcare industry to assist healthcare professionals and staff remotely. In addition, players are expanding their businesses to cater to the demand for robotics in various applications. For example, in March 2023, ABB Robotics invested US\$ 20 million in the expansion of its robotics facility in

Michigan, North America; its construction is expected to be completed by November 2023. The expansion aims to boost the factory's production output and meet the increased demand for automation from 70% of businesses from the electric vehicles, healthcare, packaging, and logistics industries in the US. Thus, such expansion projects are likely to support R&D activities and help the market players to develop technologies for various industry-specific applications, which is expected to create lucrative growth opportunities for the North America autonomous mobile manipulator robots market during the forecast period.

## North America Autonomous Mobile Manipulator Robots Market Overview

The North American autonomous mobile manipulator robots market is segmented into the US, Canada, and Mexico. The demand for autonomous mobile manipulator robots is rising in technology, manufacturing, retail, and other industries due to adoption of automation. The manufacturing market in the region strongly focuses on high-tech solutions. The region has several major automotive manufacturers, including General Motors and Ford. Also, the various retail industries in North America strongly focus on providing online shopping platforms for their customers. The region has several major retailers, such as Walmart and Amazon. According to the US Department of Commerce, sales from e-commerce increased to 7.8% ( $\pm 1.6\%$ ) from the first quarter of 2023, while total retail sales increased to 3.4% ( $\pm 0.4\%$ ). Therefore, the rise in the retail & e-commerce industry led to the demand for efficient warehouses, which contributed to the adoption of autonomous mobile manipulator robots in North America.

Further, the increasing use of advanced technologies such as robotics, automation, and Augmented Reality (AR) has enabled e-commerce companies to excel in efficiency and reachability. An increasing number of consumers prefer online purchasing over in-store purchasing owing to benefits such as convenience, lead time, cost, and variety of choices. E-commerce businesses rely on shipping and warehousing capabilities to transfer products from retailer/manufacturing units to end users in a shorter lead time. An increase in the need for warehousing and storage is driving the North America autonomous mobile manipulator robots market. According to Waredrock, the warehouse & storage industry grew at an annual rate of 11.5% in 2021. Amazon, Shopify, and other e-commerce giants have their presence in the region. Various AMMR players in North America are developing AMMR solution. In 2020, Hello Robot launched a mobile manipulation robot driven by open-source Python & Arduino code. Thus, the rising demand from e-commerce and warehouse companies and growing developments in mobile manipulator robots by market players to expand their footprints fuel the North America autonomous mobile manipulator robots market growth.

## North America Autonomous Mobile Manipulator Robots Market Revenue and Forecast to 2030 (US\$ Million)

### North America Autonomous Mobile Manipulator Robots Market Segmentation

The North America autonomous mobile manipulator robots market is segmented into type, payload, application, end user industry, and country.

Based on type, the North America autonomous mobile manipulator robots market is bifurcated into differential and omni-directional. In 2023, the differential segment registered a larger share in the North America autonomous mobile manipulator robots market.

Based on payload, the North America autonomous mobile manipulator robots market is segmented into -5 kg, 5-10 kg, 10-20 kg, and 20 kg & Above. In 2023, the 10-20 kg segment registered the largest share in the North America autonomous mobile manipulator robots market.

Based on application, the North America autonomous mobile manipulator robots market is segmented into sorting, pick & place, inventory management, and others. In 2023, the pick & place segment registered the largest share in the North America autonomous mobile manipulator robots market. Based on end user industry, the North America autonomous mobile manipulator robots market is segmented into healthcare, space, assembly, and others. In 2023, the others segment registered the largest share in the North America autonomous mobile manipulator robots market.

Based on country, the North America autonomous mobile manipulator robots market is segmented into the US, Canada, and Mexico. In 2023, the US segment registered the largest share in the North America autonomous mobile manipulator robots market. Hans Laser Technology Co Ltd, Kuka AG, OMRON Corp, Robotnik Automation SL are the leading companies operating in the North America autonomous mobile manipulator robots market.

## Contents

### **1. INTRODUCTION**

- 1.1 Study Scope
- 1.2 The Insight Partners Research Report Guidance
- 1.3 Market Segmentation

### **2. KEY TAKEAWAYS**

### **3. RESEARCH METHODOLOGY**

- 3.1 Coverage
- 3.2 Secondary Research
- 3.3 Primary Research

### **4. NORTH AMERICA AUTONOMOUS MOBILE MANIPULATOR ROBOTS MARKET LANDSCAPE**

- 4.1 Market Overview
- 4.2 North America PEST Analysis
- 4.3 Ecosystem Analysis
- 4.4 Expert Opinions

### **5. NORTH AMERICA AUTONOMOUS MOBILE MANIPULATOR ROBOTS MARKET – KEY MARKET DYNAMICS**

- 5.1 Market Drivers
  - 5.1.1 Rising E-commerce Industry
  - 5.1.2 Growing Demand for Automated Systems
- 5.2 Market Restraints
  - 5.2.1 High Cost of AMMR
- 5.3 Market Opportunities
  - 5.3.1 Increasing Demand in Industry-Specific Applications
- 5.4 Future Trends
  - 5.4.1 AMMR with Advanced Charging Systems
- 5.5 Impact Analysis of Drivers and Restraints

## **6. AUTONOMOUS MOBILE MANIPULATOR ROBOTS MARKET – NORTH AMERICA MARKET ANALYSIS**

- 6.1 North America Autonomous Mobile Manipulator Robots Market Overview
- 6.2 North America Autonomous Mobile Manipulator Robots Market Revenue and Volume Forecast and Analysis

## **7. NORTH AMERICA AUTONOMOUS MOBILE MANIPULATOR ROBOTS MARKET – BY TYPE**

- 7.1 Overview
- 7.2 North America Autonomous Mobile Manipulator Robots Market, by Type (2022 and 2030)
- 7.3 Differential
  - 7.3.1 Overview
  - 7.3.2 Differential: North America Autonomous Mobile Manipulator Robots Market – Revenue and Forecast to 2030 (US\$ Million)
- 7.4 Omni-Directional
  - 7.4.1 Overview
  - 7.4.2 Omni-Directional: North America Autonomous Mobile Manipulator Robots Market – Revenue and Forecast to 2030 (US\$ Million)

## **8. NORTH AMERICA AUTONOMOUS MOBILE MANIPULATOR ROBOTS MARKET ANALYSIS – PAYLOAD**

- 8.1 Overview
- 8.2 North America Autonomous Mobile Manipulator Robots Market, by Payload (2022 and 2030)
- 8.3 3-5 KG
  - 8.3.1 Overview
  - 8.3.2 3-5 KG: North America Autonomous Mobile Manipulator Robots Market – Revenue and Forecast to 2030 (US\$ Million)
- 8.4 5-10 KG
  - 8.4.1 Overview
  - 8.4.2 5-10 KG: North America Autonomous Mobile Manipulator Robots Market – Revenue and Forecast to 2030 (US\$ Million)
- 8.5-20 KG
  - 8.5.1 Overview
  - 8.5.2-20 KG: North America Autonomous Mobile Manipulator Robots Market –

Revenue and Forecast to 2030 (US\$ Million)

8.6 KG & Above

8.6.1 Overview

8.6.2 KG & Above: North America Autonomous Mobile Manipulator Robots Market – Revenue and Forecast to 2030 (US\$ Million)

## **9. NORTH AMERICA AUTONOMOUS MOBILE MANIPULATOR ROBOTS MARKET ANALYSIS – APPLICATION**

9.1 Overview

9.2 North America Autonomous Mobile Manipulator Robots Market, by Application (2022 and 2030)

9.3 Sorting

9.3.1 Overview

9.3.2 Sorting: North America Autonomous Mobile Manipulator Robots Market – Revenue and Forecast to 2030 (US\$ Million)

9.4 Pick & Place

9.4.1 Overview

9.4.2 Pick & place: North America Autonomous Mobile Manipulator Robots Market – Revenue and Forecast to 2030 (US\$ Million)

9.5 Inventory management

9.5.1 Overview

9.5.2 Inventory management: North America Autonomous Mobile Manipulator Robots Market – Revenue and Forecast to 2030 (US\$ Million)

9.6 Others

9.6.1 Overview

9.6.2 Others: North America Autonomous Mobile Manipulator Robots Market – Revenue and Forecast to 2030 (US\$ Million)

## **10. NORTH AMERICA AUTONOMOUS MOBILE MANIPULATOR ROBOTS MARKET ANALYSIS – BY END USER**

10.1 Overview

10.2 North America Autonomous Mobile Manipulator Robots Market, by End User (2022 and 2030)

10.3 Healthcare

10.3.1 Overview

10.3.2 Healthcare: North America Autonomous Mobile Manipulator Robots Market – Revenue and Forecast to 2030 (US\$ Million)

## 10.4 Space

### 10.4.1 Overview

10.4.2 Space: North America Autonomous Mobile Manipulator Robots Market – Revenue and Forecast to 2030 (US\$ Million)

## 10.5 Assembly

### 10.5.1 Overview

10.5.2 Assembly: North America Autonomous Mobile Manipulator Robots Market – Revenue and Forecast to 2030 (US\$ Million)

## 10.6 Others

### 10.6.1 Overview

10.6.2 Others: North America Autonomous Mobile Manipulator Robots Market – Revenue and Forecast to 2030 (US\$ Million)

## **11. NORTH AMERICA AUTONOMOUS MOBILE MANIPULATOR ROBOTS MARKET – COUNTRY ANALYSIS**

### 11.1 Overview

11.1.1 North America: Autonomous Mobile Manipulator Robots Market, by Key Country

11.1.1.1 US: Autonomous Mobile Manipulator Robots Market – Revenue, and Forecast to 2030 (US\$ Million)

11.1.1.1.1 US: Autonomous Mobile Manipulator Robots Market, by Type

11.1.1.1.2 US: Autonomous Mobile Manipulator Robots Market, by Payload

11.1.1.1.3 US: Autonomous Mobile Manipulator Robots Market, by Application

11.1.1.1.4 US: Autonomous Mobile Manipulator Robots Market, by End User

Industry

11.1.1.2 Canada: Autonomous Mobile Manipulator Robots Market – Revenue, and Forecast to 2030 (US\$ Million)

11.1.1.2.1 Canada: Autonomous Mobile Manipulator Robots Market, by Type

11.1.1.2.2 Canada: Autonomous Mobile Manipulator Robots Market, by Payload

11.1.1.2.3 Canada: Autonomous Mobile Manipulator Robots Market, by Application

11.1.1.2.4 Canada: Autonomous Mobile Manipulator Robots Market, by End User

Industry

11.1.1.3 Mexico: Autonomous Mobile Manipulator Robots Market – Revenue, and Forecast to 2030 (US\$ Million)

11.1.1.3.1 Mexico: Autonomous Mobile Manipulator Robots Market, by Type

11.1.1.3.2 Mexico: Autonomous Mobile Manipulator Robots Market, by Payload

11.1.1.3.3 Mexico: Autonomous Mobile Manipulator Robots Market, by Application

11.1.1.3.4 Mexico: Autonomous Mobile Manipulator Robots Market, by End User



Industry

## **12. INDUSTRY LANDSCAPE**

- 12.1 Overview
- 12.2 Market Initiative
- 12.3 New Product Development

## **13. COMPANY PROFILES**

- 13.1 OMRON Corp
  - 13.1.1 Key Facts
  - 13.1.2 Business Description
  - 13.1.3 Products and Services
  - 13.1.4 Financial Overview
  - 13.1.5 SWOT Analysis
  - 13.1.6 Key Developments
- 13.2 Robotnik Automation SL
  - 13.2.1 Key Facts
  - 13.2.2 Business Description
  - 13.2.3 Products and Services
  - 13.2.4 Financial Overview
  - 13.2.5 SWOT Analysis
  - 13.2.6 Key Developments
- 13.3 Kuka AG
  - 13.3.1 Key Facts
  - 13.3.2 Business Description
  - 13.3.3 Products and Services
  - 13.3.4 Financial Overview
  - 13.3.5 SWOT Analysis
  - 13.3.6 Key Developments
- 13.4 Hans Laser Technology Co Ltd
  - 13.4.1 Key Facts
  - 13.4.2 Business Description
  - 13.4.3 Products and Services
  - 13.4.4 Financial Overview
  - 13.4.5 SWOT Analysis
  - 13.4.6 Key Developments



## 14. APPENDIX

14.1 About The Insight Partners

14.2 Word IndexList of Tables

Table 1. North America Autonomous Mobile Manipulator Robots Market Revenue and Forecast to 2030 (US\$ Million)

Table 2. North America: Autonomous Mobile Manipulator Robots Market, by Key Country – Revenue and Forecast to 2030 (US\$ Million)

Table 3. US: Autonomous Mobile Manipulator Robots Market, by Type –Revenue and Forecast to 2030 (US\$ Million)

Table 4. US: Autonomous Mobile Manipulator Robots Market, by Payload –Revenue and Forecast to 2030 (US\$ Million)

Table 5. US: Autonomous Mobile Manipulator Robots Market, by Payload – Volume and Forecast to 2030 (Units)

Table 6. US: Autonomous Mobile Manipulator Robots Market, by Application –Revenue and Forecast to 2030 (US\$ Million)

Table 7. US: Autonomous Mobile Manipulator Robots Market, by End User Industry –Revenue and Forecast to 2030 (US\$ Million)

Table 8. Canada: Autonomous Mobile Manipulator Robots Market, by Type –Revenue and Forecast to 2030 (US\$ Million)

Table 9. Canada: Autonomous Mobile Manipulator Robots Market, by Payload –Revenue and Forecast to 2030 (US\$ Million)

Table 10. Canada: Autonomous Mobile Manipulator Robots Market, by Payload – Volume and Forecast to 2030 (Units)

Table 11. Canada: Autonomous Mobile Manipulator Robots Market, by Application –Revenue and Forecast to 2030 (US\$ Million)

Table 12. Canada: Autonomous Mobile Manipulator Robots Market, by End User Industry –Revenue and Forecast to 2030 (US\$ Million)

Table 13. Mexico: Autonomous Mobile Manipulator Robots Market, by Type –Revenue and Forecast to 2030 (US\$ Million)

Table 14. Mexico: Autonomous Mobile Manipulator Robots Market, by Payload –Revenue and Forecast to 2030 (US\$ Million)

Table 15. Mexico: Autonomous Mobile Manipulator Robots Market, by Payload – Volume and Forecast to 2030 (Units)

Table 16. Mexico: Autonomous Mobile Manipulator Robots Market, by Application –Revenue and Forecast to 2030 (US\$ Million)

Table 17. Mexico: Autonomous Mobile Manipulator Robots Market, by End User Industry –Revenue and Forecast to 2030 (US\$ Million)

Table 18. List of Abbreviation

## List of Figures

- Figure 1. North America Autonomous Mobile Manipulator Robots Market Segmentation
- Figure 2. North America Autonomous Mobile Manipulator Robots Market Segmentation – By Country
- Figure 3. North America Autonomous Mobile Manipulator Robots Market Overview
- Figure 4. North America Autonomous Mobile Manipulator Robots Market, by Type
- Figure 5. North America Autonomous Mobile Manipulator Robots Market, by Payload
- Figure 6. North America Autonomous Mobile Manipulator Robots Market, by Application
- Figure 7. North America Autonomous Mobile Manipulator Robots Market, by End User
- Figure 8. North America Autonomous Mobile Manipulator Robots Market, by Country
- Figure 9. North America – PEST Analysis
- Figure 10. North America Autonomous Mobile Manipulator Robots Market- Ecosystem Analysis
- Figure 11. Expert Opinion
- Figure 12. North America Autonomous Mobile Manipulator Robots Market: Impact Analysis of Drivers and Restraints
- Figure 13. North America Autonomous Mobile Manipulator Robots Market Revenue and Forecast (US\$ Million)
- Figure 14. North America Autonomous Mobile Manipulator Robots Market Revenue Share, by Type (2022 and 2030)
- Figure 15. Differential: North America Autonomous Mobile Manipulator Robots Market – Revenue and Forecast to 2030 (US\$ Million)
- Figure 16. Omni-Directional: North America Autonomous Mobile Manipulator Robots Market – Revenue and Forecast to 2030 (US\$ Million)
- Figure 17. North America Autonomous Mobile Manipulator Robots Market Revenue Share, by Payload (2022 and 2030)
- Figure 18. 3-5 KG: North America Autonomous Mobile Manipulator Robots Market – Revenue and Forecast to 2030 (US\$ Million)
- Figure 19. 5-10 KG: North America Autonomous Mobile Manipulator Robots Market – Revenue and Forecast to 2030 (US\$ Million)
- Figure 20. -20 KG: North America Autonomous Mobile Manipulator Robots Market – Revenue and Forecast to 2030 (US\$ Million)
- Figure 21. KG & Above: North America Autonomous Mobile Manipulator Robots Market – Revenue and Forecast to 2030 (US\$ Million)
- Figure 22. North America Autonomous Mobile Manipulator Robots Market Revenue Share, by Application (2022 and 2030)
- Figure 23. Sorting: North America Autonomous Mobile Manipulator Robots Market – Revenue and Forecast to 2030 (US\$ Million)
- Figure 24. Pick & place: North America Autonomous Mobile Manipulator Robots Market

– Revenue and Forecast to 2030 (US\$ Million)

Figure 25. Inventory management: North America Autonomous Mobile Manipulator Robots Market – Revenue and Forecast to 2030 (US\$ Million)

Figure 26. Others: North America Autonomous Mobile Manipulator Robots Market – Revenue and Forecast to 2030 (US\$ Million)

Figure 27. North America Autonomous Mobile Manipulator Robots Market Revenue Share, by End User (2022 and 2030)

Figure 28. Healthcare: North America Autonomous Mobile Manipulator Robots Market – Revenue and Forecast to 2030 (US\$ Million)

Figure 29. Space: North America Autonomous Mobile Manipulator Robots Market – Revenue and Forecast to 2030 (US\$ Million)

Figure 30. Assembly: North America Autonomous Mobile Manipulator Robots Market – Revenue and Forecast to 2030 (US\$ Million)

Figure 31. Others: North America Autonomous Mobile Manipulator Robots Market – Revenue and Forecast to 2030 (US\$ Million)

Figure 32. North America: Autonomous Mobile Manipulator Robots Market, by Key Country- Revenue (2022) (US\$ Million)

Figure 33. North America: Autonomous Mobile Manipulator Robots Market Revenue Share, by Key Country (2022 and 2030)

Figure 34. US: Autonomous Mobile Manipulator Robots Market – Revenue, and Forecast to 2030 (US\$ Million)

Figure 35. Canada: Autonomous Mobile Manipulator Robots Market – Revenue, and Forecast to 2030 (US\$ Million)

Figure 36. Mexico: Autonomous Mobile Manipulator Robots Market – Revenue, and Forecast to 2030 (US\$ Million)

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