

Warehouse Robotics Market: Global Industry Trends, Share, Size, Growth, Opportunity and Forecast 2023-2028

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Abstracts

Market Overview:

The global warehouse robotics market size reached US\$ 5.7 Billion in 2022. Looking forward, IMARC Group expects the market to reach US\$ 11.7 Billion by 2028, exhibiting a growth rate (CAGR) of 11.6% during 2023-2028.

Warehouse robotics is a computer-controlled solution used for transportation of materials and streamlining and automating warehouse processes. It utilizes specialized machines and software solutions for pick-place, packing, transportation, packaging and palletizing of material and products with enhanced accuracy. Warehouse robotics includes industrial robots, sortation, conveyors, autonomous mobile robots (AMR) and automated storage and retrieval systems (AS/RS). They use computer systems, onboard sensors, magnetic strips, infrared cameras and integrated maps to navigate workspaces, identify obstacles, avoid collisions and deliver inventory around the warehouse. These robots aid in minimizing redundant processes and are not prone to fatigue and frequent wear and tear. As a result, warehouse robotics finds extensive applications across various industries, including food and beverage, automotive, pharmaceutical and retail.

Warehouse Robotics Market Trends:

Significant growth in the e-commerce industry across the globe is among the key factors creating a positive outlook for the market. Warehouse robotics offers enhanced convenience to the consumers by minimizing overall business and operational costs and human errors in product deliveries. Moreover, the widespread adoption of AS/RS

systems across industries is providing a thrust to the market growth. The system operates through cranes and shuttles on fixed tracks to facilitate speedy retrieval and placement of products in aisles and vertical columns. Additionally, various technological advancements, such as the integration of connected devices with the Industrial Internet of Things (IIoT), cloud computing and artificial intelligence (AI) solutions, are acting as other growth-inducing factors. These technologies offer improved object perception and positioning that facilitate efficient material batching, picking, ordering, packaging, warehouse security and inspection. Other factors, including the increasing automation across industries, along with the rapid modernization of existing small and medium-scale warehouses, are anticipated to drive the market toward growth.

Key Market Segmentation:

IMARC Group provides an analysis of the key trends in each sub-segment of the global warehouse robotics market report, along with forecasts at the global, regional and country level from 2023-2028. Our report has categorized the market based on type, function and end user.

Breakup by Type:

- Articulated
- Gantry
- Automated Storage and Retrieval System (ASRS)
- Mobile
- Others

Breakup by Function:

- Storage
- Trans-shipments
- Packaging
- Others

Breakup by End User:

- Food and Beverages
- Automotive
- Retail

Electronics and Electrical
Pharmaceuticals
Others

Breakup by Region:

North America

United States
Canada

Asia-Pacific

China
Japan
India
South Korea
Australia
Indonesia
Others

Europe

Germany
France
United Kingdom
Italy
Spain
Russia
Others

Latin America

Brazil
Mexico
Others

Middle East and Africa

Competitive Landscape:

The competitive landscape of the industry has also been examined along with the profiles of the key players being ABB Ltd., Amazon.com Inc., Fanuc Corp., Fetch Robotics Inc., Honeywell International Inc., Kuka AG, Locus Robotics, Omron Corporation, Siemens AG., Yamaha Motor Co. Ltd. and Yaskawa Electric Corp.

Key Questions Answered in This Report:

What was the size of the global warehouse robotics market in 2022?

What is the expected growth rate of the global warehouse robotics market during 2023-2028?

What has been the impact of COVID-19 on the global warehouse robotics market?

What are the key factors driving the global warehouse robotics market?

What is the breakup of the global warehouse robotics market based on the type?

What is the breakup of the global warehouse robotics market based on the end user?

What are the key regions in the global warehouse robotics market?

Who are the key players/companies in the global warehouse robotics market?

Contents

1 PREFACE

2 SCOPE AND METHODOLOGY

- 2.1 Objectives of the Study
- 2.2 Stakeholders
- 2.3 Data Sources
 - 2.3.1 Primary Sources
 - 2.3.2 Secondary Sources
- 2.4 Market Estimation
 - 2.4.1 Bottom-Up Approach
 - 2.4.2 Top-Down Approach
- 2.5 Forecasting Methodology

3 EXECUTIVE SUMMARY

4 INTRODUCTION

- 4.1 Overview
- 4.2 Key Industry Trends

5 GLOBAL WAREHOUSE ROBOTICS MARKET

- 5.1 Market Overview
- 5.2 Market Performance
- 5.3 Impact of COVID-19
- 5.4 Market Forecast

6 MARKET BREAKUP BY TYPE

- 6.1 Articulated
 - 6.1.1 Market Trends
 - 6.1.2 Market Forecast
- 6.2 Gantry
 - 6.2.1 Market Trends
 - 6.2.2 Market Forecast
- 6.3 Automated Storage and Retrieval System (ASRS)

- 6.3.1 Market Trends
- 6.3.2 Market Forecast
- 6.4 Mobile
 - 6.4.1 Market Trends
 - 6.4.2 Market Forecast
- 6.5 Others
 - 6.5.1 Market Trends
 - 6.5.2 Market Forecast

7 MARKET BREAKUP BY FUNCTION

- 7.1 Storage
 - 7.1.1 Market Trends
 - 7.1.2 Market Forecast
- 7.2 Trans-shipments
 - 7.2.1 Market Trends
 - 7.2.2 Market Forecast
- 7.3 Packaging
 - 7.3.1 Market Trends
 - 7.3.2 Market Forecast
- 7.4 Others
 - 7.4.1 Market Trends
 - 7.4.2 Market Forecast

8 MARKET BREAKUP BY END USER

- 8.1 Food and Beverages
 - 8.1.1 Market Trends
 - 8.1.2 Market Forecast
- 8.2 Automotive
 - 8.2.1 Market Trends
 - 8.2.2 Market Forecast
- 8.3 Retail
 - 8.3.1 Market Trends
 - 8.3.2 Market Forecast
- 8.4 Electronics and Electrical
 - 8.4.1 Market Trends
 - 8.4.2 Market Forecast
- 8.5 Pharmaceuticals

8.5.1 Market Trends

8.5.2 Market Forecast

8.6 Others

8.6.1 Market Trends

8.6.2 Market Forecast

9 MARKET BREAKUP BY REGION

9.1 North America

9.1.1 United States

9.1.1.1 Market Trends

9.1.1.2 Market Forecast

9.1.2 Canada

9.1.2.1 Market Trends

9.1.2.2 Market Forecast

9.2 Asia-Pacific

9.2.1 China

9.2.1.1 Market Trends

9.2.1.2 Market Forecast

9.2.2 Japan

9.2.2.1 Market Trends

9.2.2.2 Market Forecast

9.2.3 India

9.2.3.1 Market Trends

9.2.3.2 Market Forecast

9.2.4 South Korea

9.2.4.1 Market Trends

9.2.4.2 Market Forecast

9.2.5 Australia

9.2.5.1 Market Trends

9.2.5.2 Market Forecast

9.2.6 Indonesia

9.2.6.1 Market Trends

9.2.6.2 Market Forecast

9.2.7 Others

9.2.7.1 Market Trends

9.2.7.2 Market Forecast

9.3 Europe

9.3.1 Germany

- 9.3.1.1 Market Trends
- 9.3.1.2 Market Forecast
- 9.3.2 France
 - 9.3.2.1 Market Trends
 - 9.3.2.2 Market Forecast
- 9.3.3 United Kingdom
 - 9.3.3.1 Market Trends
 - 9.3.3.2 Market Forecast
- 9.3.4 Italy
 - 9.3.4.1 Market Trends
 - 9.3.4.2 Market Forecast
- 9.3.5 Spain
 - 9.3.5.1 Market Trends
 - 9.3.5.2 Market Forecast
- 9.3.6 Russia
 - 9.3.6.1 Market Trends
 - 9.3.6.2 Market Forecast
- 9.3.7 Others
 - 9.3.7.1 Market Trends
 - 9.3.7.2 Market Forecast
- 9.4 Latin America
 - 9.4.1 Brazil
 - 9.4.1.1 Market Trends
 - 9.4.1.2 Market Forecast
 - 9.4.2 Mexico
 - 9.4.2.1 Market Trends
 - 9.4.2.2 Market Forecast
 - 9.4.3 Others
 - 9.4.3.1 Market Trends
 - 9.4.3.2 Market Forecast
- 9.5 Middle East and Africa
 - 9.5.1 Market Trends
 - 9.5.2 Market Breakup by Country
 - 9.5.3 Market Forecast

10 SWOT ANALYSIS

- 10.1 Overview
- 10.2 Strengths

10.3 Weaknesses

10.4 Opportunities

10.5 Threats

11 VALUE CHAIN ANALYSIS

12 PORTERS FIVE FORCES ANALYSIS

12.1 Overview

12.2 Bargaining Power of Buyers

12.3 Bargaining Power of Suppliers

12.4 Degree of Competition

12.5 Threat of New Entrants

12.6 Threat of Substitutes

13 PRICE ANALYSIS

14 COMPETITIVE LANDSCAPE

14.1 Market Structure

14.2 Key Players

14.3 Profiles of Key Players

14.3.1 ABB Ltd.

14.3.1.1 Company Overview

14.3.1.2 Product Portfolio

14.3.1.3 Financials

14.3.1.4 SWOT Analysis

14.3.2 Amazon.com Inc.

14.3.2.1 Company Overview

14.3.2.2 Product Portfolio

14.3.2.3 Financials

14.3.2.4 SWOT Analysis

14.3.3 Fanuc Corp.

14.3.3.1 Company Overview

14.3.3.2 Product Portfolio

14.3.3.3 Financials

14.3.3.4 SWOT Analysis

14.3.4 Fetch Robotics Inc.

14.3.4.1 Company Overview

- 14.3.4.2 Product Portfolio
- 14.3.5 Honeywell International Inc.
 - 14.3.5.1 Company Overview
 - 14.3.5.2 Product Portfolio
 - 14.3.5.3 Financials
 - 14.3.5.4 SWOT Analysis
- 14.3.6 Kuka AG
 - 14.3.6.1 Company Overview
 - 14.3.6.2 Product Portfolio
 - 14.3.6.3 Financials
 - 14.3.6.4 SWOT Analysis
- 14.3.7 Locus Robotics
 - 14.3.7.1 Company Overview
 - 14.3.7.2 Product Portfolio
- 14.3.8 Omron Corporation
 - 14.3.8.1 Company Overview
 - 14.3.8.2 Product Portfolio
 - 14.3.8.3 Financials
 - 14.3.8.4 SWOT Analysis
- 14.3.9 Siemens AG.
 - 14.3.9.1 Company Overview
 - 14.3.9.2 Product Portfolio
 - 14.3.9.3 Financials
- 14.3.10 Yamaha Motor Co. Ltd.
 - 14.3.10.1 Company Overview
 - 14.3.10.2 Product Portfolio
 - 14.3.10.3 Financials
 - 14.3.10.4 SWOT Analysis
- 14.3.11 Yaskawa Electric Corp.
 - 14.3.11.1 Company Overview
 - 14.3.11.2 Product Portfolio
 - 14.3.11.3 Financials

List Of Tables

LIST OF TABLES

Table 1: Global: Warehouse Robotics Market: Key Industry Highlights, 2022 and 2028

Table 2: Global: Warehouse Robotics Market Forecast: Breakup by Type (in Million US\$), 2023-2028

Table 3: Global: Warehouse Robotics Market Forecast: Breakup by Function (in Million US\$), 2023-2028

Table 4: Global: Warehouse Robotics Market Forecast: Breakup by End User (in Million US\$), 2023-2028

Table 5: Global: Warehouse Robotics Market Forecast: Breakup by Region (in Million US\$), 2023-2028

Table 6: Global: Warehouse Robotics Market: Competitive Structure

Table 7: Global: Warehouse Robotics Market: Key Players

List Of Figures

LIST OF FIGURES

Figure 1: Global: Warehouse Robotics Market: Major Drivers and Challenges

Figure 2: Global: Warehouse Robotics Market: Sales Value (in Billion US\$), 2017-2022

Figure 3: Global: Warehouse Robotics Market Forecast: Sales Value (in Billion US\$), 2023-2028

Figure 4: Global: Warehouse Robotics Market: Breakup by Type (in %), 2022

Figure 5: Global: Warehouse Robotics Market: Breakup by Function (in %), 2022

Figure 6: Global: Warehouse Robotics Market: Breakup by End User (in %), 2022

Figure 7: Global: Warehouse Robotics Market: Breakup by Region (in %), 2022

Figure 8: Global: Warehouse Robotics (Articulated) Market: Sales Value (in Million US\$), 2017 & 2022

Figure 9: Global: Warehouse Robotics (Articulated) Market Forecast: Sales Value (in Million US\$), 2023-2028

Figure 10: Global: Warehouse Robotics (Gantry) Market: Sales Value (in Million US\$), 2017 & 2022

Figure 11: Global: Warehouse Robotics (Gantry) Market Forecast: Sales Value (in Million US\$), 2023-2028

Figure 12: Global: Warehouse Robotics (Automated Storage and Retrieval System (ASRS)) Market: Sales Value (in Million US\$), 2017 & 2022

Figure 13: Global: Warehouse Robotics (Automated Storage and Retrieval System (ASRS)) Market Forecast: Sales Value (in Million US\$), 2023-2028

Figure 14: Global: Warehouse Robotics (Mobile) Market: Sales Value (in Million US\$), 2017 & 2022

Figure 15: Global: Warehouse Robotics (Mobile) Market Forecast: Sales Value (in Million US\$), 2023-2028

Figure 16: Global: Warehouse Robotics (Other Types) Market: Sales Value (in Million US\$), 2017 & 2022

Figure 17: Global: Warehouse Robotics (Other Types) Market Forecast: Sales Value (in Million US\$), 2023-2028

Figure 18: Global: Warehouse Robotics (Storage) Market: Sales Value (in Million US\$), 2017 & 2022

Figure 19: Global: Warehouse Robotics (Storage) Market Forecast: Sales Value (in Million US\$), 2023-2028

Figure 20: Global: Warehouse Robotics (Trans-shipments) Market: Sales Value (in Million US\$), 2017 & 2022

Figure 21: Global: Warehouse Robotics (Trans-shipments) Market Forecast: Sales

Value (in Million US\$), 2023-2028

Figure 22: Global: Warehouse Robotics (Packaging) Market: Sales Value (in Million US\$), 2017 & 2022

Figure 23: Global: Warehouse Robotics (Packaging) Market Forecast: Sales Value (in Million US\$), 2023-2028

Figure 24: Global: Warehouse Robotics (Other Functions) Market: Sales Value (in Million US\$), 2017 & 2022

Figure 25: Global: Warehouse Robotics (Other Functions) Market Forecast: Sales Value (in Million US\$), 2023-2028

Figure 26: Global: Warehouse Robotics (Food and Beverages) Market: Sales Value (in Million US\$), 2017 & 2022

Figure 27: Global: Warehouse Robotics (Food and Beverages) Market Forecast: Sales Value (in Million US\$), 2023-2028

Figure 28: Global: Warehouse Robotics (Automotive) Market: Sales Value (in Million US\$), 2017 & 2022

Figure 29: Global: Warehouse Robotics (Automotive) Market Forecast: Sales Value (in Million US\$), 2023-2028

Figure 30: Global: Warehouse Robotics (Retail) Market: Sales Value (in Million US\$), 2017 & 2022

Figure 31: Global: Warehouse Robotics (Retail) Market Forecast: Sales Value (in Million US\$), 2023-2028

Figure 32: Global: Warehouse Robotics (Electronics and Electrical) Market: Sales Value (in Million US\$), 2017 & 2022

Figure 33: Global: Warehouse Robotics (Electronics and Electrical) Market Forecast: Sales Value (in Million US\$), 2023-2028

Figure 34: Global: Warehouse Robotics (Pharmaceuticals) Market: Sales Value (in Million US\$), 2017 & 2022

Figure 35: Global: Warehouse Robotics (Pharmaceuticals) Market Forecast: Sales Value (in Million US\$), 2023-2028

Figure 36: Global: Warehouse Robotics (Other End Users) Market: Sales Value (in Million US\$), 2017 & 2022

Figure 37: Global: Warehouse Robotics (Other End Users) Market Forecast: Sales Value (in Million US\$), 2023-2028

Figure 38: North America: Warehouse Robotics Market: Sales Value (in Million US\$), 2017 & 2022

Figure 39: North America: Warehouse Robotics Market Forecast: Sales Value (in Million US\$), 2023-2028

Figure 40: United States: Warehouse Robotics Market: Sales Value (in Million US\$), 2017 & 2022

Figure 41: United States: Warehouse Robotics Market Forecast: Sales Value (in Million US\$), 2023-2028

Figure 42: Canada: Warehouse Robotics Market: Sales Value (in Million US\$), 2017 & 2022

Figure 43: Canada: Warehouse Robotics Market Forecast: Sales Value (in Million US\$), 2023-2028

Figure 44: Asia-Pacific: Warehouse Robotics Market: Sales Value (in Million US\$), 2017 & 2022

Figure 45: Asia-Pacific: Warehouse Robotics Market Forecast: Sales Value (in Million US\$), 2023-2028

Figure 46: China: Warehouse Robotics Market: Sales Value (in Million US\$), 2017 & 2022

Figure 47: China: Warehouse Robotics Market Forecast: Sales Value (in Million US\$), 2023-2028

Figure 48: Japan: Warehouse Robotics Market: Sales Value (in Million US\$), 2017 & 2022

Figure 49: Japan: Warehouse Robotics Market Forecast: Sales Value (in Million US\$), 2023-2028

Figure 50: India: Warehouse Robotics Market: Sales Value (in Million US\$), 2017 & 2022

Figure 51: India: Warehouse Robotics Market Forecast: Sales Value (in Million US\$), 2023-2028

Figure 52: South Korea: Warehouse Robotics Market: Sales Value (in Million US\$), 2017 & 2022

Figure 53: South Korea: Warehouse Robotics Market Forecast: Sales Value (in Million US\$), 2023-2028

Figure 54: Australia: Warehouse Robotics Market: Sales Value (in Million US\$), 2017 & 2022

Figure 55: Australia: Warehouse Robotics Market Forecast: Sales Value (in Million US\$), 2023-2028

Figure 56: Indonesia: Warehouse Robotics Market: Sales Value (in Million US\$), 2017 & 2022

Figure 57: Indonesia: Warehouse Robotics Market Forecast: Sales Value (in Million US\$), 2023-2028

Figure 58: Others: Warehouse Robotics Market: Sales Value (in Million US\$), 2017 & 2022

Figure 59: Others: Warehouse Robotics Market Forecast: Sales Value (in Million US\$), 2023-2028

Figure 60: Europe: Warehouse Robotics Market: Sales Value (in Million US\$), 2017 &

2022

Figure 61: Europe: Warehouse Robotics Market Forecast: Sales Value (in Million US\$), 2023-2028

Figure 62: Germany: Warehouse Robotics Market: Sales Value (in Million US\$), 2017 & 2022

Figure 63: Germany: Warehouse Robotics Market Forecast: Sales Value (in Million US\$), 2023-2028

Figure 64: France: Warehouse Robotics Market: Sales Value (in Million US\$), 2017 & 2022

Figure 65: France: Warehouse Robotics Market Forecast: Sales Value (in Million US\$), 2023-2028

Figure 66: United Kingdom: Warehouse Robotics Market: Sales Value (in Million US\$), 2017 & 2022

Figure 67: United Kingdom: Warehouse Robotics Market Forecast: Sales Value (in Million US\$), 2023-2028

Figure 68: Italy: Warehouse Robotics Market: Sales Value (in Million US\$), 2017 & 2022

Figure 69: Italy: Warehouse Robotics Market Forecast: Sales Value (in Million US\$), 2023-2028

Figure 70: Spain: Warehouse Robotics Market: Sales Value (in Million US\$), 2017 & 2022

Figure 71: Spain: Warehouse Robotics Market Forecast: Sales Value (in Million US\$), 2023-2028

Figure 72: Russia: Warehouse Robotics Market: Sales Value (in Million US\$), 2017 & 2022

Figure 73: Russia: Warehouse Robotics Market Forecast: Sales Value (in Million US\$), 2023-2028

Figure 74: Others: Warehouse Robotics Market: Sales Value (in Million US\$), 2017 & 2022

Figure 75: Others: Warehouse Robotics Market Forecast: Sales Value (in Million US\$), 2023-2028

Figure 76: Latin America: Warehouse Robotics Market: Sales Value (in Million US\$), 2017 & 2022

Figure 77: Latin America: Warehouse Robotics Market Forecast: Sales Value (in Million US\$), 2023-2028

Figure 78: Brazil: Warehouse Robotics Market: Sales Value (in Million US\$), 2017 & 2022

Figure 79: Brazil: Warehouse Robotics Market Forecast: Sales Value (in Million US\$), 2023-2028

Figure 80: Mexico: Warehouse Robotics Market: Sales Value (in Million US\$), 2017 &

2022

Figure 81: Mexico: Warehouse Robotics Market Forecast: Sales Value (in Million US\$), 2023-2028

Figure 82: Others: Warehouse Robotics Market: Sales Value (in Million US\$), 2017 & 2022

Figure 83: Others: Warehouse Robotics Market Forecast: Sales Value (in Million US\$), 2023-2028

Figure 84: Middle East and Africa: Warehouse Robotics Market: Sales Value (in Million US\$), 2017 & 2022

Figure 85: Middle East and Africa: Warehouse Robotics Market: Breakup by Country (in %), 2022

Figure 86: Middle East and Africa: Warehouse Robotics Market Forecast: Sales Value (in Million US\$), 2023-2028

Figure 87: Global: Warehouse Robotics Industry: SWOT Analysis

Figure 88: Global: Warehouse Robotics Industry: Value Chain Analysis

Figure 89: Global: Warehouse Robotics Industry: Porter's Five Forces Analysis

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