

# **Robotic Palletizer Market by Component (Robotic Arm, End-of-Arm Tooling, Control System), Robot Type (Traditional Robots, Collaborative Robots), Application (Bags, Boxes & Cases, Pails & Drums), End-use Industry and Region - Global Forecast to 2029**

<https://marketpublishers.com/r/R71BC74C31D9EN.html>

Date: April 2024

Pages: 218

Price: US\$ 4,950.00 (Single User License)

ID: R71BC74C31D9EN

## **Abstracts**

The robotic palletizer market is projected to grow from USD 1.4 billion in 2024 and is expected to reach USD 1.9 billion by 2029, growing at a CAGR of 5.9% from 2024 to 2029. Modern robotic palletizing systems are highly adaptable and can be reprogrammed to handle different products, sizes, and packaging types. This flexibility allows manufacturers to respond quickly to market changes without significant downtime or additional costs associated with retooling or retraining employees.

“The Boxes and cases segment in the robotic palletizer market to witness highest growth rate during the forecast period.”

Boxes & cases come in a vast array of shapes, sizes, and materials, making them suitable for a wide range of products, due to which they are used for packaging consumer goods such as packaged foods, beverages, household products, and personal care items. Robotic palletizers are employed to palletize boxes and cases of finished products. These systems ensure consistent stacking patterns, optimize pallet density, and facilitate efficient storage and transportation. Boxes & cases are expected to hold the largest market share during the forecast period.

“Market for traditional robots in the robotic palletizer market to hold the largest market share during the forecast period.”

Traditional robots are advanced automation systems designed to perform various manufacturing tasks with precision, speed, and reliability. These robots are widely used across industries to automate repetitive, labor-intensive, and hazardous tasks, enhancing productivity, efficiency, and safety in manufacturing processes. Industrial robots come in various types and configurations, each tailored to specific applications and operational requirements

“The US is expected to hold the largest market size in the North American region during the forecast period.”

The US accounted for the largest share of the North American robotic palletizer market in 2023, and a similar trend is expected to be witnessed during the forecast period. The US manufacturing sector consists of the electronics, chemical, automotive, petroleum, consumer goods, and food processing industries, which are all growing rapidly. This growth has led to an increased demand for palletizers, especially with the rise of e-commerce and the retail sector. The likes of Amazon, Walmart, and Target invest heavily in robotic palletizing technology for efficient product handling in their fulfillment centers.

By Company Type: Tier 1 – 40%, Tier 2 – 35%, and Tier 3 – 25%

By Designation: C-level Executives – 48%, Directors – 33%, and Others – 19%

By Region: North America – 35%, Europe – 18%, Asia Pacific – 40%, and RoW – 7%

The report profiles key players in the robotic palletizer market with their respective market ranking analysis. Prominent players profiled in this report include FANUC CORPORATION (Japan), KION GROUP AG (Germany), KUKA AG (Germany), ABB (Switzerland), and Krones AG (Germany). Schneider Packaging Equipment Company, Inc. (US), Honeywell International Inc. (US), Kaufman Engineered Systems (US), Concetti S.p.A. (Italy), Sidel (France), Brenton, LLC. (US), A-B-C Packaging Machine Corporation (US), Antenna Group (Italy), BEUMER GROUP (Germany), Brillopak (UK), BW Integrated Systems (US), Columbia Machine, Inc. (US), Euroimpianti S.p.A. (Italy), Fuji Yusoki Kogyo Co., Ltd. (Japan), HAVER & BOECKER OHG (Germany), KHS Group (Germany), MMCI (US), Okura Yusoki Co., Ltd. (Japan), Rothe Packtech Pvt. Ltd. (India), and S&R Robot Systems, LLC. (US) are among a few other key companies

in the robotic palletizer market.

## Report Coverage

The report defines, describes, and forecasts the robotic palletizer market based on component, robot type, application, end-use industry and region. It provides detailed information regarding drivers, restraints, opportunities, and challenges influencing the growth of the robotic palletizer market. It also analyzes competitive developments such as product launches, acquisitions, expansions, and actions carried out by the key players to grow in the market.

## Reasons to Buy This Report

The report will help the market leaders/new entrants in the market with information on the closest approximations of the revenue for the overall robotic palletizer market and the subsegments. The report will help stakeholders understand the competitive landscape and gain more insight to position their business better and plan suitable go-to-market strategies. The report also helps stakeholders understand the pulse of the market and provides them with information on key drivers, restraints, opportunities, and challenges.

The report will provide insights into the following pointers:

Analysis of key drivers (Growing labor shortage and need for workforce optimization), restraints (Technology and programming complexity), opportunities (Increasing application in small and medium-sized enterprises), and challenges (Lack of awareness and expertise) of the robotic palletizer market.

Product development /Innovation: Detailed insights on upcoming technologies, research & development activities, and new product & service launches in the robotic palletizer market.

Market Development: Comprehensive information about lucrative markets; the report analyses the robotic palletizer market across various regions.

Market Diversification: Exhaustive information about new products & services, untapped geographies, recent developments, and investments in the robotic palletizer market.

Competitive Assessment: In-depth assessment of market share, growth strategies, and services, offering of leading players like FANUC CORPORATION (Japan), KION GROUP AG (Germany), KUKA AG (Germany), ABB (Switzerland), and Krones AG (Germany) among others in the robotic palletizer market.

## Contents

### 1 INTRODUCTION

#### 1.1 STUDY OBJECTIVES

#### 1.2 MARKET DEFINITION AND SCOPE

##### 1.2.1 INCLUSIONS & EXCLUSIONS

#### 1.3 STUDY SCOPE

##### 1.3.1 MARKETS COVERED

#### FIGURE 1 ROBOTIC PALLETIZER MARKET SEGMENTATION

##### 1.3.2 REGIONAL SCOPE

#### FIGURE 2 ROBOTIC PALLETIZER MARKET: REGIONAL SCOPE

##### 1.3.3 YEARS CONSIDERED

#### 1.4 CURRENCY CONSIDERED

##### 1.4.1 USD EXCHANGE RATES

#### 1.5 UNIT CONSIDERED

#### 1.6 LIMITATIONS

#### 1.7 STAKEHOLDERS

#### 1.8 RECESSION IMPACT

### 2 RESEARCH METHODOLOGY

#### 2.1 RESEARCH DATA

#### FIGURE 3 ROBOTIC PALLETIZER MARKET: RESEARCH DESIGN

#### 2.2 SECONDARY AND PRIMARY RESEARCH

#### FIGURE 4 RESEARCH APPROACH

##### 2.2.1 SECONDARY DATA

###### 2.2.1.1 Key data from secondary sources

###### 2.2.1.2 List of major secondary sources

##### 2.2.2 PRIMARY DATA

###### 2.2.2.1 Primary interviews with experts

###### 2.2.2.2 Key data from primary sources

###### 2.2.2.3 Key industry insights

###### 2.2.2.4 Breakdown of primaries

#### 2.3 MARKET SIZE ESTIMATION

#### FIGURE 5 MARKET SIZE ESTIMATION METHODOLOGY: APPROACH (SUPPLY SIDE): REVENUE OF PRODUCTS IN ROBOTIC PALLETIZER MARKET

##### 2.3.1 BOTTOM-UP APPROACH

###### 2.3.1.1 Approach to estimate market size using bottom-up analysis (demand side)

## FIGURE 6 ROBOTIC PALLETIZER MARKET: BOTTOM-UP APPROACH

### 2.3.2 TOP-DOWN APPROACH

#### 2.3.2.1 Approach to estimate market size using top-down analysis (supply side)

## FIGURE 7 ROBOTIC PALLETIZER MARKET: TOP-DOWN APPROACH

## 2.4 MARKET BREAKDOWN AND DATA TRIANGULATION

## FIGURE 8 DATA TRIANGULATION

## 2.5 RESEARCH ASSUMPTIONS

## 2.6 LIMITATIONS

## 2.7 PARAMETERS CONSIDERED TO ANALYZE IMPACT OF RECESSION ON ROBOTIC PALLETIZER MARKET

## 2.8 RISK ASSESSMENT

## 3 EXECUTIVE SUMMARY

### FIGURE 9 FOOD & BEVERAGE SEGMENT TO ACCOUNT FOR DOMINANT SHARE THROUGHOUT FORECAST PERIOD

### FIGURE 10 ROBOTIC PALLETIZER MARKET, BY ROBOT TYPE, 2024 VS. 2029

### FIGURE 11 BOXES & CASES SEGMENT TO DOMINATE ROBOTIC PALLETIZER MARKET THROUGHOUT FORECAST PERIOD

### FIGURE 12 ASIA PACIFIC TO RECORD HIGHEST CAGR DURING FORECAST PERIOD

## 4 PREMIUM INSIGHTS

### 4.1 ATTRACTIVE OPPORTUNITIES IN ROBOTIC PALLETIZER MARKET

#### FIGURE 13 GROWING LABOR SHORTAGE AND NEED FOR WORKFORCE OPTIMIZATION TO DRIVE MARKET

### 4.2 ROBOTIC PALLETIZER MARKET, BY ROBOT TYPE

#### FIGURE 14 COLLABORATIVE ROBOTS TO REGISTER HIGHER CAGR DURING FORECAST PERIOD

### 4.3 ROBOTIC PALLETIZER MARKET, BY COMPONENT

#### FIGURE 15 ROBOTIC ARM SEGMENT TO HOLD LARGEST SHARE OF ROBOTIC PALLETIZER MARKET IN 2029

### 4.4 ROBOTIC PALLETIZER MARKET, BY END-USE INDUSTRY

#### FIGURE 16 FOOD & BEVERAGES SEGMENT TO HOLD LARGEST SHARE OF ROBOTIC PALLETIZER MARKET BY 2029

### 4.5 ROBOTIC PALLETIZER MARKET IN NORTH AMERICA, BY ROBOT TYPE AND COUNTRY

#### FIGURE 17 TRADITIONAL ROBOTS SEGMENT AND US HELD DOMINANT SHARE

OF NORTH AMERICAN ROBOTIC PALLETIZER MARKET IN 2023

4.6 ROBOTIC PALLETIZER MARKET, BY COUNTRY

FIGURE 18 INDIA TO EXHIBIT HIGHEST CAGR IN ROBOTIC PALLETIZER MARKET DURING FORECAST PERIOD

## 5 MARKET OVERVIEW

5.1 INTRODUCTION

5.2 MARKET DYNAMICS

FIGURE 19 ROBOTIC PALLETIZER MARKET: DRIVERS, RESTRAINTS, OPPORTUNITIES, AND CHALLENGES

5.2.1 DRIVERS

FIGURE 20 DRIVERS

5.2.1.1 Growing labor shortage and need for workforce optimization

5.2.1.2 Rising use of e-commerce and logistics automation

5.2.1.3 Increased production and cost efficiency

5.2.1.4 Wide-scale adoption of articulated robots

5.2.2 RESTRAINTS

FIGURE 21 RESTRAINTS

5.2.2.1 Technology and programming complexity

5.2.2.2 Concerns about reliability and durability

5.2.3 OPPORTUNITIES

FIGURE 22 OPPORTUNITIES

5.2.3.1 Increasing application in small and medium-sized enterprises

5.2.3.2 Associated benefits in food & beverage industry

5.2.3.3 Increased adoption of collaborative robots

5.2.4 CHALLENGES

FIGURE 23 CHALLENGES

5.2.4.1 Lack of awareness and expertise

5.2.4.2 High initial investment cost

5.3 SUPPLY CHAIN ANALYSIS

FIGURE 24 SUPPLY CHAIN OF ROBOTIC PALLETIZER MARKET

5.4 TRENDS/DISRUPTIONS IMPACTING BUSINESSES

5.4.1 REVENUE SHIFT AND NEW REVENUE POCKETS FOR MARKET PLAYERS

FIGURE 25 REVENUE SHIFT IN ROBOTIC PALLETIZER MARKET

5.5 ECOSYSTEM: ROBOTIC PALLETIZER MARKET

FIGURE 26 ECOSYSTEM OF ROBOTIC PALLETIZER MARKET

TABLE 1 ROLE OF COMPANIES IN ECOSYSTEM

5.6 PORTER'S FIVE FORCES ANALYSIS

**TABLE 2 ROBOTIC PALLETIZERS MARKET: PORTER'S FIVE FORCES ANALYSIS****FIGURE 27 PORTER'S FIVE FORCES ANALYSIS**

- 5.6.1 THREAT OF NEW ENTRANTS
- 5.6.2 THREAT OF SUBSTITUTES
- 5.6.3 BARGAINING POWER OF SUPPLIERS
- 5.6.4 BARGAINING POWER OF BUYERS
- 5.6.5 INTENSITY OF COMPETITIVE RIVALRY

**5.7 KEY STAKEHOLDERS AND BUYING CRITERIA**

- 5.7.1 KEY STAKEHOLDERS IN BUYING PROCESS

**FIGURE 28 INFLUENCE OF STAKEHOLDERS ON BUYING PROCESS FOR TOP THREE END-USE INDUSTRIES****TABLE 3 INFLUENCE OF STAKEHOLDERS ON BUYING PROCESS FOR TOP THREE END-USE INDUSTRIES (%)**

- 5.7.2 BUYING CRITERIA

**FIGURE 29 KEY BUYING CRITERIA FOR TOP THREE END-USE INDUSTRIES****5.8 CASE STUDY****5.8.1 BASTIAN INTEGRATES ROBOTIC PALLETIZER WITH EXISTING OPERATIONS FOR CARGILL**

- 5.8.2 NEW SOLUTION FOR BAG PALLETIZING USING KAWASAKI ROBOT

**5.8.3 ROBOTIC CASE PACKING AND CLAMP PALLETIZING SYSTEM WITH STRETCH WRAPPER****5.9 INVESTMENT AND FUNDING SCENARIO****FIGURE 30 INVESTMENT AND FUNDING SCENARIO FOR STARTUPS****5.10 TECHNOLOGY ANALYSIS**

- 5.10.1 KEY TECHNOLOGY

- 5.10.1.1 Machine vision
- 5.10.1.2 Augmented reality
- 5.10.1.3 Internet of things

- 5.10.2 COMPLEMENTARY TECHNOLOGY

- 5.10.2.1 Automated storage and retrieval system

- 5.10.3 ADJACENT TECHNOLOGY

- 5.10.3.1 Conveyor and sortation systems

**5.11 TRADE ANALYSIS**

- 5.11.1 IMPORT SCENARIO

**FIGURE 31 IMPORT DATA FOR HS CODE 441520, BY COUNTRY, 2018–2022****TABLE 4 IMPORT DATA FOR HS CODE 441520, BY COUNTRY, 2018–2022 (USD THOUSAND)**

- 5.11.2 EXPORT SCENARIO

**FIGURE 32 EXPORT DATA FOR HS CODE 441520, BY COUNTRY, 2018–2022**



TABLE 5 EXPORT DATA FOR HS CODE 441520, BY COUNTRY, 2018–2022 (USD THOUSAND)

### 5.11.3 TARIFF ANALYSIS

TABLE 6 TARIFF FOR HS CODE: 441520 EXPORTED BY GERMANY, 2022

TABLE 7 TARIFF FOR HS CODE: 441520 EXPORTED BY US, 2022

TABLE 8 TARIFF FOR HS CODE: 441520 EXPORTED BY UK, 2022

TABLE 9 TARIFF FOR HS CODE: 441520 EXPORTED BY CHINA, 2022

### 5.12 PATENT ANALYSIS

TABLE 10 PATENT REGISTRATIONS RELATED TO ROBOTIC PALLETIZER MARKET

FIGURE 33 PATENTS PUBLISHED FOR ROBOTIC PALLETIZER MARKET BETWEEN 2013 AND 2023

TABLE 11 NUMBER OF PATENTS REGISTERED IN ROBOTIC PALLETIZER MARKET FROM 2013 TO 2023

FIGURE 34 TOP 10 COMPANIES WITH HIGHEST NUMBER OF PATENT APPLICATIONS FROM 2013 TO 2023

### 5.13 REGULATORY STANDARDS

TABLE 12 NORTH AMERICA: REGULATORY BODIES, GOVERNMENT AGENCIES, AND OTHER ORGANIZATIONS

TABLE 13 EUROPE: REGULATORY BODIES, GOVERNMENT AGENCIES, AND OTHER ORGANIZATIONS

TABLE 14 ASIA PACIFIC: REGULATORY BODIES, GOVERNMENT AGENCIES, AND OTHER ORGANIZATIONS

TABLE 15 ROW: REGULATORY BODIES, GOVERNMENT AGENCIES, AND OTHER ORGANIZATIONS

#### 5.13.1 STANDARDS

5.13.1.1 Iso 10218-1:2011

5.13.1.2 Ria r15.06-2012

5.13.1.3 Machinery directive (2006/42/ec)

5.13.1.4 EN ISO 10218-1 and EN ISO 10218-2

### 5.14 KEY CONFERENCES AND EVENTS, 2024–2025

TABLE 16 ROBOTIC PALLETIZER MARKET: CONFERENCES AND EVENTS

### 5.15 PRICING ANALYSIS

5.15.1 AVERAGE SELLING PRICE OF ROBOTIC PALLETIZER PRODUCTS/SOLUTIONS, BY KEY PLAYER

FIGURE 35 AVERAGE SELLING PRICE OF ROBOTIC PALLETIZER PRODUCTS/SOLUTIONS, BY KEY PLAYER

TABLE 17 AVERAGE SELLING PRICE OF ROBOTIC PALLETIZERS BY KEY PLAYER (USD)

5.15.2 AVERAGE SELLING PRICE (ASP) TREND OF ROBOTIC PALLETIZERS,  
2020–2029

FIGURE 36 AVERAGE SELLING PRICE (ASP) TREND OF ROBOTIC PALLETIZERS,  
2020–2029

## **6 ROBOTIC PALLETIZER MARKET, BY COMPONENT**

### 6.1 INTRODUCTION

FIGURE 37 END-OF-ARM TOOLING SEGMENT TO RECORD HIGHEST CAGR  
DURING FORECAST PERIOD

TABLE 18 ROBOTIC PALLETIZER MARKET, BY COMPONENT, 2020–2023 (USD  
MILLION)

TABLE 19 ROBOTIC PALLETIZER MARKET, BY COMPONENT, 2024–2029 (USD  
MILLION)

### 6.2 ROBOTIC ARM

6.2.1 INCREASING DEMAND FOR INDUSTRIAL ASSEMBLING TO BOOST  
SEGMENT

### 6.3 END-OF-ARM TOOLING (EOAT)

6.3.1 ADAPTIVE CONFIGURATION FOR VARIOUS PALLETIZING PATTERNS TO  
FUEL MARKET

### 6.4 CONTROL SYSTEM

6.4.1 INCREASING DEMAND FOR SAFE PALLETIZING AND MATERIAL HANDLING  
TO DRIVE MARKET

### 6.5 OTHERS

6.5.1 RISING DEMAND FOR DETECTION OF POTENTIAL HAZARDS IN WORK  
ENVIRONMENT TO FUEL GROWTH

## **7 ROBOTIC PALLETIZER MARKET, BY PAYLOAD**

### 7.1 INTRODUCTION

### 7.2

## I would like to order

Product name: Robotic Palletizer Market by Component (Robotic Arm, End-of-Arm Tooling, Control System), Robot Type (Traditional Robots, Collaborative Robots), Application (Bags, Boxes & Cases, Pails & Drums), End-use Industry and Region - Global Forecast to 2029

Product link: <https://marketpublishers.com/r/R71BC74C31D9EN.html>

Price: US\$ 4,950.00 (Single User License / Electronic Delivery)

If you want to order Corporate License or Hard Copy, please, contact our Customer Service:

[info@marketpublishers.com](mailto:info@marketpublishers.com)

## Payment

To pay by Credit Card (Visa, MasterCard, American Express, PayPal), please, click button on product page <https://marketpublishers.com/r/R71BC74C31D9EN.html>

To pay by Wire Transfer, please, fill in your contact details in the form below:

First name:  
Last name:  
Email:  
Company:  
Address:  
City:  
Zip code:  
Country:  
Tel:  
Fax:  
Your message:

**\*\*All fields are required**

Customer signature \_\_\_\_\_

Please, note that by ordering from marketpublishers.com you are agreeing to our Terms & Conditions at <https://marketpublishers.com/docs/terms.html>

To place an order via fax simply print this form, fill in the information below

and fax the completed form to +44 20 7900 3970