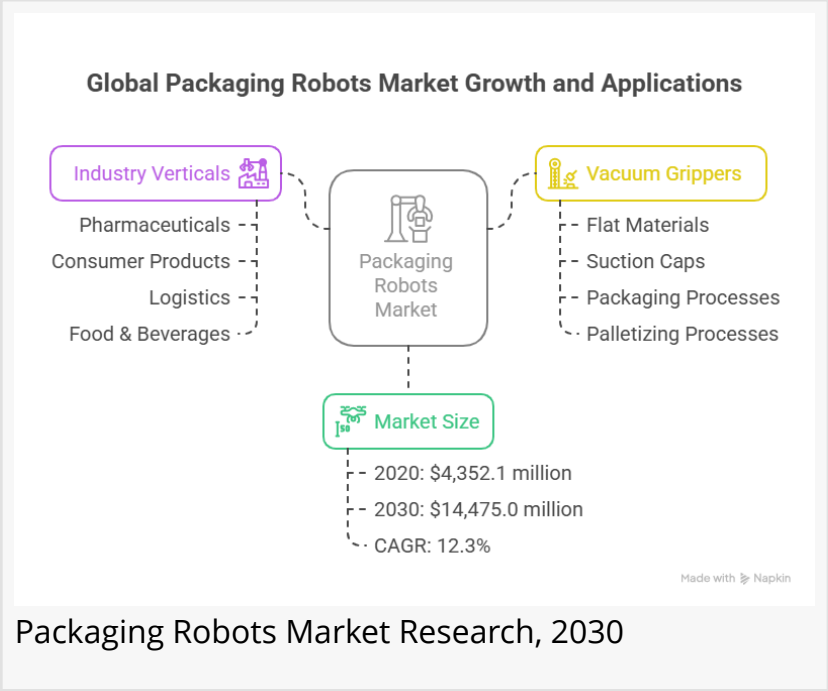
Packaging Robots Market valued at $4.35 billion in 2020, expected to reach $14.48 billion by 2030

Packaging Robots Market Research, 2030



Packaging Robots Market Research, 2030

WILMINGTON, DE, UNITED STATES, June 20, 2025 /EINPresswire.com/ -- The global [□□□□□□□□□ □□□□□□ □□□□□□] was valued at $4,352.1 million in 2020 and is projected to reach $14,475.0 million by 2030, registering a compound annual growth rate (CAGR) of 12.3% from 2021 to 2030. Packaging robots encompass automated systems, robots, and specialized software designed to streamline and automate packaging processes across various industries, including pharmaceuticals, consumer products, logistics, and food & beverages. These robots, equipped with grippers such as vacuum, clamp, or claw types, handle tasks like picking, packing, and palletizing, enhancing efficiency and reducing manual labor. Vacuum grippers, for instance, are widely used for handling flat materials like glass or metal sheets, as well as crates, boxes, cans, and bottles, making them integral to packaging operations.

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Market Dynamics

Drivers

The packaging robots market is driven by the growing demand for automation across industries, the need for maximum efficiency, and cost reduction benefits. The rise of the global robotics industry, coupled with the rapid expansion of the retail and e-commerce sectors, significantly

boosts market growth. Packaging robots streamline tasks such as inventory scanning, packing, and shelf arrangement, reducing time and effort. The e-commerce sector, in particular, relies heavily on picking robots for order fulfillment, as manual picking is labor-intensive and prone to errors. Automation in picking enhances efficiency and cuts costs, making it a key driver.

The adoption of robotic systems is increasing in industries like food & beverages, healthcare, and automotive, driven by the need for precision, reduced product damage, and improved production efficiency. For example, pick-and-place robots offer high accuracy and minimize waste, fueling demand. Additionally, the continuous growth in industrialization and the push for automation to optimize processes further propel the market.

Restraints

High initial costs and a shortage of skilled personnel to operate and maintain robotic systems pose challenges to market growth. The complexity of integrating and managing advanced robotic systems requires specialized training, which is often lacking in certain regions. These factors can hinder adoption, particularly for smaller businesses.

Opportunities

The rise in automation and industrialization presents lucrative opportunities for market expansion. Innovations in robotic technologies, such as advanced grippers and machine vision systems, are enhancing the capabilities of packaging robots, particularly in complex tasks like pharmaceutical packaging. The increasing collaboration between packaging robots and e-commerce platforms also offers significant growth potential, as does the development of robots with embedded technologies, such as Fanuc Corporation’s R-2000Id/210FH model launched in November 2020, which features integrated cables for improved performance.

Impact of COVID-19

The COVID-19 pandemic disrupted the packaging robots market, as lockdowns forced many companies to halt operations to comply with government regulations. This led to a temporary decline in revenue due to disruptions in manufacturing, raw material shortages, and reduced manpower. The lack of new consignments further impacted the market. However, as industries recover, the market is expected to rebound gradually, driven by the ongoing need for automation to address labor shortages and improve efficiency.

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Market Segmentation

The packaging robots market is segmented by gripper type, application, end user, and region.

By Gripper Type

The market is categorized into clamp, claw, vacuum, and others. The "others" segment is projected to grow at the highest CAGR of 15.2% during the forecast period, driven by innovations in specialized grippers tailored to specific packaging needs. Vacuum grippers remain widely used for their ability to handle multiple objects simultaneously, particularly in palletizing and packaging processes.

By Application

The market is divided into picking & placing, packing, and palletizing. In 2020, the packing segment generated the highest revenue, driven by its critical role in tray packing, case packing, and filling. However, picking & placing is the fastest-growing application, fueled by the e-commerce sector’s demand for efficient order fulfillment. Palletizing, including case palletizing, bag palletizing, and de-palletizing, also contributes significantly to market growth.

By End User

The market serves food & beverages, pharmaceuticals, consumer products, logistics, and others. The pharmaceutical sector is expected to grow at the fastest rate by 2030, driven by the need for automated packaging to ensure precise capping, labeling, and collation while protecting products from environmental factors like moisture and light. Food & beverage and e-commerce industries also drive demand due to their need for high-speed, accurate packaging solutions.

By Region

Asia-Pacific held the dominant market share in 2020 and is expected to maintain its lead through 2030, driven by rapid industrialization, urbanization, and e-commerce growth in countries like China, Japan, India, and South Korea. North America is projected to grow at a significant rate, supported by technological advancements and the adoption of automation in logistics and manufacturing. Europe and LAMEA (Latin America, Middle East, and Africa) also contribute to the market, with Europe benefiting from strong industrial automation trends.

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Competitive Landscape

Key players in the packaging robots market include ABB Limited, Krones AG, Fanuc Corporation, Schneider Electric SE, Yaskawa America Inc., Mitsubishi Electric Corporation, Bosch Packaging Technology (Robert Bosch GmbH), Brenton Engineering, Kuka Roboter GmbH, and Remtec Automation LLC. These companies focus on product launches and acquisitions to strengthen their market position. For instance, in January 2022, ABB Ltd. acquired EV Charging Infrastructure

Solutions to expand its digital services and customer base. Similarly, Fanuc’s launch of the R-2000Id/210FH robot in November 2020 enhanced its product portfolio, catering to advanced packaging needs.

Key Benefits for Stakeholders

The report provides a comprehensive analysis of current and emerging market trends from 2020 to 2030.

In-depth market estimations for key segments offer actionable insights.

Competitive analysis tracks top players’ strategies and market positioning.

Regional analysis identifies opportunities across North America, Europe, Asia-Pacific, and LAMEA.

Forecast analysis from 2021 to 2030 supports strategic decision-making.

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