Packaging Automation Solution Market to Hit $98.7 Billion by 2031: Robotics and AI Driving 8.5% CAGR Globally

Global packaging automation Solution market to grow from $51.5 Billion to $98.7 Billion, driven by AI, IoT, robotics & e-commerce.

Packaging Automation Solution Market

AUSTIN, TX, UNITED STATES, October 29, 2025 /EINPresswire.com/ -- According to DataM Intelligence, the Packaging Automation Solution Market reached US$ 51.5 billion in 2022 and is projected to grow to approximately US$ 98.7 billion by 2031, registering a robust CAGR of 8.5% during the forecast period 2024–2031. The market's rapid expansion is driven by manufacturers' increasing focus on streamlining packaging operations, enhancing productivity, reducing material waste, and integrating advanced technologies such as robotics, artificial intelligence (AI), the Internet of Things (IoT), and machine vision. Modern packaging automation extends far beyond basic sealing and wrapping; today's intelligent systems manage complex tasks including filling, capping, labelling, bagging, and end-of-line palletising with precision and speed. This transformation underscores the shift toward smart manufacturing and Industry 4.0, as businesses across food & beverage, pharmaceuticals, consumer goods, and logistics adopt automation to meet rising efficiency and sustainability demands.

> By 2031, the global packaging automation market will reach $98.7 Billion, driven by AI, robotics, and Industry 4.0 integration across manufacturing lines"
>
> *DataM Intelligence*

Several key growth drivers underpin this rapid expansion. First, the rise of e-commerce and omni-channel retail is placing ever-greater demands on packaging lines that are high-speed, highly flexible, and capable of handling diverse formats from small parcels to large pallets. In addition, labour cost pressures and shortages in manufacturing are prompting

companies to deploy automated systems to reduce dependency on manual intervention. Sustainability concerns and regulatory requirements (such as waste reduction, light-weighting, and recyclable materials) also encourage adoption of smarter, more precise packaging automation systems that minimise material usage and error rates.

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Key Highlights from the Report:

 Global packaging automation solution market size: US$ 51.5 billion in 2022, projected to reach US$ 98.7 billion by 2031.
 Compound annual growth rate (CAGR) of about 8.5% during the forecast period 2024–2031.
 Market segmented by product (automated packagers, packaging robots, automated conveyors & sortation systems), application (case packaging, palletizing, labelling, bagging, filling, capping, wrapping, others) and end-user (food & beverages, healthcare, chemicals, retail, electronics, automotive, others).
 North America holds a dominant regional share, Europe is identified as the largest region globally, while Asia-Pacific is the fastest growing.
 Leading market drivers include e-commerce packaging demand, labour optimisation, and adoption of Industry 4.0 technologies such as sensors, machine vision, IoT-enabled monitoring, and remote diagnostics.
 Key players include Rockwell Automation, ABB Ltd., Mitsubishi Electric Corporation, Schneider Electric SE, and Emerson Electric Co.

Recent Developments:

United States: Recent Industry Developments

1. In September 2025, Rockwell Automation, Inc. unveiled its next-generation PackML-enabled automation platform to streamline machine integration and reduce changeover time in high-volume packaging lines. The system enhances flexibility for food, pharma, and consumer goods manufacturers.

2. In August 2025, Honeywell International Inc. launched an AI-powered vision inspection system designed for smart packaging lines. The solution leverages machine learning to detect defects, verify labeling accuracy, and ensure regulatory compliance in real time.

3. In July 2025, ABB Ltd. introduced a cobot-based packaging cell equipped with advanced motion control and adaptive grippers. The system enables faster product handling and is tailored for e-commerce fulfillment centers and CPG manufacturers.

4. In May 2025, ProMach, Inc. expanded its End-of-Line Automation division by acquiring a U.S.-based robotics integrator, enhancing its portfolio of palletizing and case-packing solutions for high-throughput packaging environments.

Japan: Recent Industry Developments:

1. In September 2025, FANUC Corporation launched a high-speed delta robot system optimized for packaging lightweight consumer goods. The system incorporates predictive maintenance algorithms and advanced motion tracking for enhanced productivity.

2. In August 2025, Yaskawa Electric Corporation introduced an intelligent packaging automation controller integrating robotics, servo motion, and safety in a single architecture. It's aimed at reducing footprint and improving system coordination in Japanese packaging plants.

3. In June 2025, Mitsubishi Electric Corporation partnered with Toyo Jidoki Co., Ltd. to develop next-generation filling and sealing machines using real-time data analytics for energy-efficient packaging processes.

4. In May 2025, OMRON Corporation unveiled a machine vision-guided robotic packaging solution that combines 3D bin-picking with automated quality inspection, supporting Japan's labor efficiency and smart factory goals.

Company Insights:

Key players operating in the packaging automation solution market include:

- Rockwell Automation
- ABB Ltd.
- Mitsubishi Electric Corporation
- Schneider Electric SE
- Emerson Electric Co.
- Siemens AG
- Automated Packaging Systems, Inc.
- BEUMER Group GmbH & Co.
- Swisslog Holding AG
- Kollmorgen

Market Segmentation:

The Packaging Automation Solution Market is segmented along several dimensions.

By Product Type
One major segmentation is by product: automated packagers (machines that perform tasks such

as case erecting, sealing, wrapping, and palletising), packaging robots (e.g., pick-and-place robotic arms, delta robots, collaborative robots), automated conveyors and sortation systems (for moving, batching, and routing goods within the packaging line), as well as auxiliary equipment such as vision systems, sensors, IoT modules, and servo-driven mechanisms. Adoption is highest for machines that deliver fast throughput, flexibility, and minimal changeover time.

By Application
Another segmentation dimension is by application: this includes case packaging (erecting, filling, and closing of cartons), palletising (stacking finished boxes onto pallets), labelling, bagging (filling bags or pouches), filling and capping (especially for liquids and healthcare products), wrapping (shrink-wrap, stretch-wrap), and other applications such as shrink tunnels, pick-and-place systems, and autonomous mobile robots integrated into the packaging line. Each application has distinct requirements in terms of speed, hygiene, size, and changeover flexibility.

By End-User Industry
End-user segmentation covers industries such as food & beverages (F&B), healthcare (pharmaceuticals, medical devices), chemicals, retail/consumer goods, electricals & electronics, aerospace & defence, automotive, and others. The F&B segment is a major adopter due to high volumes, variety of formats, and increasing speed and hygiene demands. Healthcare is also a rapidly growing segment because of strict compliance, sterility, and traceability requirements.

By Region
Geographically, the segmentation covers North America, Europe, Asia-Pacific, Latin America, and the Middle East & Africa. Each region displays different growth dynamics in terms of adoption rate, automation maturity, labour cost, regulatory pressure, and investment incentives.

Regional Insights:

Regionally, the packaging automation solutions market shows varying levels of maturity and growth momentum. In North America, especially the United States, advanced manufacturing and packaging facilities are early adopters of automation, supported by strong technology suppliers, high labour costs, and regulatory emphasis on safety and efficiency.

Europe is the largest region overall, benefitting from its established manufacturing base, regulatory standards (including packaging waste and sustainability directives), and a high level of automation adoption across industries.

Meanwhile, the Asia-Pacific region is emerging as the fastest-growing geography, powered by rapid industrialisation, growing consumer markets (especially in India and China), rising labour

costs, expansion of e-commerce, and the push towards Industry 4.0.

Latin America, the Middle East, and Africa are currently smaller contributors but represent high-potential markets as manufacturing plants modernise and international brands expand into emerging economies.

Market Dynamics:

Market Drivers
One of the core drivers of the packaging automation solution market is the intense pressure on manufacturers to improve throughput, minimise downtime, reduce labour dependency, and handle increasingly complex packaging formats. As e-commerce continues to grow, there is a need for packaging lines that can fulfill varied orders quickly, with minimal human error. Automation also enables consistent quality, less waste, and better tracking, which are critical in food & beverage and healthcare segments. The shift towards sustainability driven by both regulatory mandates and consumer expectations is another major impetus: automated systems allow precise material usage, lightweighting, and integration of recyclable formats, thus supporting the circular economy. Technology advances such as robotics, machine vision, IoT, and AI further accelerate adoption by enabling smarter packaging lines with predictive maintenance, remote monitoring, and adaptive changeovers.

Market Restraints
Despite the positive outlook, several restraints inhibit faster growth. High upfront capital investment is a major barrier, especially for small and medium-sized enterprises (SMEs) that may not have large budgets for full automation installations. Complexity of integration automating a packaging line often requires coordination of mechanical, electrical, software, and control layers presents both technical and organisational challenges. In addition, legacy equipment, lack of skilled labour to operate and maintain automation systems, and concerns around system downtime during changeovers may deter adoption. Finally, regulatory variations across regions (for example, in packaging formats, materials, and machine safety standards) may slow standardisation and scale-up of global automation solutions.

Market Opportunities:
The packaging automation solution market offers significant opportunities for innovation and growth. As manufacturers look to retrofit existing packaging lines rather than replace them entirely, there is strong demand for modular, flexible automation solutions and “packaging as a service” models. The healthcare and pharmaceutical sector, which demands high precision, sterility, and traceability, is a promising growth area for robotic packaging and vision-guided automation. Furthermore, the move towards smart packaging (connected packaging with sensors, QR codes, RFID) and digital twins (virtual simulation of packaging lines) is opening new opportunities for system integrators and automation providers. Emerging markets (especially in Asia-Pacific, Latin America, and Africa) offer large green-field potential, as manufacturing expands and automation awareness grows. Lastly, sustainability-driven automation solutions

(e.g., lightweighting, material optimisation, energy-efficient machines) are set to gain ever more importance, aligning with global climate and environmental goals.

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Reasons to Buy the Report:

 Gain a detailed understanding of market size, share, and forecast for the packaging automation solution market.
 Identify key growth segments by product type, application, and end-user industry, enabling targeted strategic planning.
 Obtain regional insights to evaluate market potential and geographic priorities for investment.
 Benefit from competitive intelligence on major industry players, their strategies, recent developments, and market positioning.
 Leverage actionable insights into market drivers, restraints, and opportunities to support decision-making and business expansion.

Frequently Asked Questions (FAQs):

 How big is the Packaging Automation Solution Market today?
 Who are the key players in the global packaging automation solution market?
 What is the projected growth rate (CAGR) of the packaging automation solution market during 2024–2031?
 What is the market forecast for the packaging automation solution market in 2030?
 Which region is estimated to dominate the packaging automation solution industry through the forecast period?

Conclusion:

The packaging automation solution market stands at a pivotal junction. With a strong foundation (US$ 51.5 billion in 2022 per DataM Intelligence) and robust forecast growth (to about US$ 98.7 billion by 2030, ~8.5% CAGR), manufacturers and automation providers alike are gearing up for a new era of packaging innovation. Key trends from e-commerce pressure, labour optimisation, and sustainability mandates, to the integration of robotics, IoT, and AI are shifting packaging lines into smart, flexible, adaptive factories of tomorrow. While challenges such as high upfront costs and integration complexity remain, opportunities in retrofit-friendly automation, healthcare packaging, smart & connected packaging, and emerging markets are compelling.

For companies in food & beverage, healthcare, consumer goods, and electronics, investments in packaging automation are no longer optional but strategic necessities. Stakeholders willing to adopt modular, scalable, and smart automation systems stand to gain competitive advantage,

improved throughput, reduced waste, and enhanced sustainability credentials.

In summary, the packaging automation solution market is not just expanding it is transforming. Market participants should align with the trajectory of innovation, orient toward flexible and sustainable solutions, and prioritise geographic and application segments that offer high growth potential. With the right strategy, the packaging lines of the future will be faster, smarter, greener, and far more responsive to the dynamic demands of global manufacturing and consumer markets.

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