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Food & Beverage Automation Market Forecasts to 2032 – Global Analysis By Component (Hardware, Software, and Services), Type, Application, End User and By Geography

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Abstracts

According to Stratistics MRC, the Global Food & Beverage Automation Market is accounted for $12.80 billion in 2025 and is expected to reach $19.89 billion by 2032 growing at a CAGR of 6.5% during the forecast period. Food & Beverage Automation is the application of modern technology and automated systems to improve efficiency in the production, processing, packaging, and distribution of food and beverages. It includes tools like robotics, conveyors, sensors, and control software that help maintain consistent quality, minimize human mistakes, and ensure safety compliance. Implementing automation allows businesses to boost productivity, reduce operational costs, and enhances precision, while catering to the rising consumer demand for safe, high-quality, and efficiently manufactured food and beverage offerings.

Market Dynamics:

Driver:

Demand for convenience & processed foods

Urbanization, busy lifestyles, and increasing participation of working populations are driving the need for faster and more efficient food production systems. Automation enables manufacturers to maintain consistent quality while producing large volumes at high speed. Rising consumption of frozen foods, snacks, and beverages is pushing companies to modernize processing and packaging lines. Advanced automation technologies help reduces human intervention, ensuring hygiene and food safety

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compliance. Manufacturers are also using automated systems to meet shorter product life cycles and frequent product launches. As consumer expectations for convenience continue to rise, automation remains a key growth enabler for the market.

Restraint:

High initial capital expenditure

Automated processing, packaging, and quality inspection equipment involves substantial costs related to machinery, software, and system integration. Small and medium-sized manufacturers often face budget limitations that restrict large-scale automation adoption. Additional expenses related to installation, workforce training, and maintenance further increase financial burden. Upgrading legacy production lines to automated systems can disrupt ongoing operations. Rapid technological advancements also raise concerns about equipment obsolescence. These financial challenges can slow automation penetration, particularly in cost-sensitive markets.

Opportunity:

Personalized nutrition & small-batch flexibility

Consumers are increasingly seeking tailored products such as low-sugar, gluten-free, plant-based, and functional foods. Automation enables manufacturers to efficiently handle small-batch production without compromising cost efficiency. Flexible automation systems allow quick changeovers and recipe modifications to meet evolving consumer preferences. Data-driven production systems support precision processing and ingredient control. Integration of AI and smart manufacturing tools enhances demand forecasting and product customization. This shift toward personalized consumption is encouraging food producers to invest in adaptive automation solutions.

Threat:

Cybersecurity vulnerabilities

Automated plants increasingly use IoT, cloud platforms, and industrial control systems that can be targeted by cyberattacks. Unauthorized access can disrupt production lines, compromise food safety, and cause financial losses. Data breaches may expose proprietary recipes, operational data, and supply chain information. Many food manufacturers lack robust cybersecurity frameworks and skilled personnel. Regulatory

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pressure related to data protection is also increasing operational complexity.

Covid-19 Impact:

The COVID-19 pandemic had a mixed impact on the food and beverage automation market. Initial lockdowns disrupted supply chains, delayed equipment installations, and slowed capital investments. Labor shortages and social distancing measures, however, highlighted the importance of automation in maintaining production continuity. Food manufacturers increasingly adopted automated solutions to reduce dependency on manual labor. The pandemic accelerated digital transformation across food manufacturing facilities. Post-pandemic strategies now emphasize resilient, automated, and contactless production environments.

The hardware segment is expected to be the largest during the forecast period

The hardware segment is expected to account for the largest market share during the forecast period. Hardware forms the foundation of automated food processing and handling operations. Increasing investments in robotic pick-and-place systems and automated packaging lines are driving segment growth. Manufacturers prioritize hardware upgrades to improve efficiency, hygiene, and throughput. Advancements in food-grade robotics and vision systems are further strengthening adoption. As automation expands across production stages, hardware continues to capture the largest market share.

The bakery & confectionery segment is expected to have the highest CAGR during the forecast period

Over the forecast period, the bakery & confectionery segment is predicted to witness the highest growth rate. Rising global consumption of bread, cakes, chocolates, and snacks is fueling demand for automated production systems. Automation helps manufacturers manage high-volume output while ensuring product consistency and quality. Increasing demand for innovative flavors and customized bakery products requires flexible automation solutions. Automated mixing, baking, cooling, and packaging systems reduce production time and labor dependency. Strict hygiene standards are also encouraging automation adoption in this segment.

Region with largest share:

During the forecast period, the Asia Pacific region is expected to hold the largest market

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share. Rapid population growth and increasing urbanization are driving demand for processed and packaged foods. Countries such as China, India, and Japan are witnessing strong investments in food manufacturing infrastructure. Rising disposable incomes and changing dietary habits are boosting automation adoption. Governments are promoting food safety regulations and industrial modernization initiatives. The presence of large-scale food producers supports advanced automation implementation.

Region with highest CAGR:

Over the forecast period, the South America region is anticipated to exhibit the highest CAGR. Expanding food processing industries in countries like Brazil and Argentina are driving automation demand. Increasing exports of processed food products require consistent quality and high production efficiency. Manufacturers are investing in automation to reduce operational costs and improve competitiveness. Growing awareness of food safety standards is encouraging technological upgrades. Foreign direct investments are supporting modernization of production facilities.

Key players in the market

Some of the key players in Food & Beverage Automation Market include ABB Ltd., Universal Robots A/S, Siemens AG, Omron Corporation, Rockwell Automation, Inc., Yaskawa Electric Corporation, Schneider Electric SE, FANUC Corporation, Mitsubishi Electric Corporation, KUKA AG, Yokogawa Electric Corporation, Tetra Pak International S.A., Emerson Electric Co., GEA Group AG, and Honeywell International Inc.

Key Developments:

In December 2025, ABB announced it has entered into an agreement to acquire IPEC, a UK-based technology company with more than 30 years of expertise in electrical diagnostics. IPEC's advanced monitoring systems track critical electrical infrastructure around the clock, using AI and advanced analytics to predict failures that could result in multi-million-dollar losses, safety risks or extended outages for industries such as data centers, healthcare, utilities and manufacturing. The transaction is expected to close in the first quarter of 2026.

In July 2025, Siemens AG announced that it has completed the acquisition of Dotmatics, a leading provider of Life Sciences R&D software headquartered in Boston and Portfolio Company of global software investor Insight Partners, for an enterprise value of $5.1 billion. With the transaction now completed, Dotmatics will form part of

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Siemens' Digital Industries Software business, marking a significant expansion of Siemens' industry-leading Product Lifecycle Management (PLM) portfolio into the rapidly growing and complementary Life Sciences market.

Components Covered:

- Hardware
- Software
- Services

Types Covered:

- Robotics
- Control & Monitoring Systems
- Sensors & Vision Systems
- Motors & Drives
- IIoT & Smart Platforms
- AI & Machine Learning-enabled Solutions
- Other Types

Applications Covered:

- Processing Automation
- Packaging & Labeling
- Palletizing
- Quality Control & Inspection

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- Storage & Distribution
- Other Applications

End Users Covered:

- Food Industry
- Beverage Industry
- Dairy
- Bakery & Confectionery
- Meat, Poultry & Seafood
- Fruits & Vegetables
- Other End Users

Regions Covered:

- North America
  - US
  - Canada
  - Mexico
- Europe
  - Germany
  - UK

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- Italy
- France
- Spain
- Rest of Europe

Asia Pacific

- Japan
- China
- India
- Australia
- New Zealand
- South Korea
- Rest of Asia Pacific

South America

- Argentina
- Brazil
- Chile
- Rest of South America

Middle East & Africa

- Saudi Arabia
- UAE

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Qatar

South Africa

Rest of Middle East & Africa

What our report offers:
- Market share assessments for the regional and country-level segments
- Strategic recommendations for the new entrants
- Covers Market data for the years 2024, 2025, 2026, 2028, and 2032
- Market Trends (Drivers, Constraints, Opportunities, Threats, Challenges, Investment Opportunities, and recommendations)
- Strategic recommendations in key business segments based on the market estimations
- Competitive landscaping mapping the key common trends
- Company profiling with detailed strategies, financials, and recent developments
- Supply chain trends mapping the latest technological advancements

Free Customization Offerings:

All the customers of this report will be entitled to receive one of the following free customization options:

Company Profiling

Comprehensive profiling of additional market players (up to 3)

SWOT Analysis of key players (up to 3)

Regional Segmentation

Market estimations, Forecasts and CAGR of any prominent country as per the client's interest (Note: Depends on feasibility check)

Competitive Benchmarking

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Benchmarking of key players based on product portfolio, geographical presence, and strategic alliances

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Note: Tables for North America, Europe, APAC, South America, and Middle East & Africa Regions are also represented in the same manner as above.

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