

# Lab Automation Market Outlook 2025-2034: Market Share, and Growth Analysis By Stage Of Automation (Pre-Analytical Stage, Analytical Stage, Post-Analytical Stage, Total Lab Automation), By Process (Discrete Processing, Continuous Flow), By Application, By End-User

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## Abstracts

The Lab Automation Market is valued at USD 9.7 billion in 2025 and is projected to grow at a CAGR of 10.6% to reach USD 24 billion by 2034. The Lab Automation Market refers to a wide array of technologies and equipment that automate laboratory processes in sectors such as pharmaceuticals, biotechnology, clinical diagnostics, forensics, and food and beverage testing. It encompasses robotic arms, liquid handlers, microplate readers, sample preparation systems, and integrated software for data analysis and process control. These systems enable high-throughput analysis, reduce human error, improve data accuracy, and increase operational efficiency. As scientific research becomes more complex and data-intensive, the need for reproducibility, speed, and scalable workflow automation is driving the adoption of lab automation across both research institutions and industrial laboratories worldwide. The lab automation market expanded notably, supported by growing investments in life sciences R&D, personalized medicine, and pandemic preparedness. Hospitals and diagnostic labs increased automation to cope with testing surges and staff shortages. Pharmaceutical companies scaled automation in both discovery and clinical trial phases. New product introductions emphasized modularity, cloud connectivity, and AI integration. Companies like Tecan, PerkinElmer, and Agilent Technologies introduced smarter systems with real-time diagnostics and predictive maintenance features. Additionally, software-as-a-service (SaaS) platforms enabled seamless integration of instruments, remote monitoring, and data sharing, especially critical in multisite

research collaborations and contract research organizations (CROs). The lab automation market is poised to grow through advancements in robotics, digital twin simulation, and interoperability standards. Greater focus will be placed on edge AI and autonomous workflows that adapt in real-time to changing lab conditions or anomalies. Sustainability will become central, with energy-efficient devices and closed-loop reagent usage gaining traction. Emerging markets in Asia-Pacific and Latin America will see accelerated adoption as labs seek to scale operations and enhance throughput. Cross-sector convergence with diagnostics, agriculture, and food safety will drive holistic automation solutions, making laboratory environments smarter, faster, and more agile.

### Key Insights Lab Automation Market

OG Analysis highlights the trend of fully integrated lab automation systems—combining robotics, analytics, and cloud-based control dashboards—transforming traditional labs into smart, data-driven ecosystems.

Miniaturized and portable automation devices are trending, especially in field research, point-of-care diagnostics, and decentralized lab settings where space and mobility matter.

According to OG Analysis, predictive maintenance and built-in diagnostics in automation equipment are trending, minimizing downtime and enhancing overall lab productivity.

Lab-as-a-Service (LaaS) models are trending, where automation equipment is provided through subscription or leasing, reducing upfront investment burdens for smaller institutions.

Green automation solutions—using less energy, recyclable consumables, and low-volume reagents—are trending as sustainability becomes a lab procurement priority.

OG Analysis identifies the increasing volume of laboratory testing and the need for precision and reproducibility as major drivers propelling the lab automation market.

Rising labor shortages in healthcare and research labs are accelerating demand for automation that can handle repetitive, time-consuming tasks with minimal supervision, says OG Analysis.

OG Analysis notes that funding in genomic and proteomic research is boosting the adoption of automated sample handling and high-throughput screening systems.

Advancements in software interoperability and cloud connectivity are making lab automation systems easier to integrate and manage across multisite or hybrid research setups.

OG Analysis highlights the challenge of system integration across diverse platforms and legacy lab infrastructure, often requiring custom interfaces and extensive IT support.

According to OG Analysis, high capital expenditure and lengthy ROI cycles remain barriers for small- to medium-sized labs hesitant to adopt full-scale automation solutions.

## Lab Automation Market Segmentation

### By Stage Of Automation

Pre-Analytical Stage

Analytical Stage

Post-Analytical Stage

Total Lab Automation

### By Process

Discrete Processing

Continuous Flow

### By Application

Diagnostics

Genomic Solutions

Microbiology

Drug Discovery

Proteomic Solutions

Other Applications

#### By End-User

Pharmaceutical and Biotechnology Companies

Research and Diagnostic Laboratories

Other End-Users

#### Key Companies Analysed

Thermo Fisher Scientific

Becton Dickinson And Company (BD)

Agilent Technologies Inc.

PerkinElmer LLC

Beckman Coulter Inc.

Biomek Inc.

Bio-Rad Laboratories

QIAGEN N.V.

Tecan Group

Brooks Life Sciences

Hamilton Company

Promega Corporation

Opentrons Labworks Inc

Analytik Jena AG

Gilson Inc.

Eppendorf Corporate

Hudson Robotics

Cartesian Therapeutics

Labcyte Inc. (now part of Beckman Coulter Life Sciences)

Zymo Research Corp.

Perceptive Instruments Ltd.

Synthace Ltd.

Festo Corp.

Roche Diagnostics

Peak Analysis & Automation (PAA)

Lab Automation Market Analytics

The report employs rigorous tools, including Porter's Five Forces, value chain mapping,

*Lab Automation Market Outlook 2025-2034: Market Share, and Growth Analysis By Stage Of Automation (Pre-Analyti...*

and scenario-based modeling, to assess supply–demand dynamics. Cross-sector influences from parent, derived, and substitute markets are evaluated to identify risks and opportunities. Trade and pricing analytics provide an up-to-date view of international flows, including leading exporters, importers, and regional price trends.

Macroeconomic indicators, policy frameworks such as carbon pricing and energy security strategies, and evolving consumer behavior are considered in forecasting scenarios. Recent deal flows, partnerships, and technology innovations are incorporated to assess their impact on future market performance.

### Lab Automation Market Competitive Intelligence

The competitive landscape is mapped through OG Analysis' proprietary frameworks, profiling leading companies with details on business models, product portfolios, financial performance, and strategic initiatives. Key developments such as mergers & acquisitions, technology collaborations, investment inflows, and regional expansions are analyzed for their competitive impact. The report also identifies emerging players and innovative startups contributing to market disruption.

Regional insights highlight the most promising investment destinations, regulatory landscapes, and evolving partnerships across energy and industrial corridors.

### Countries Covered

North America — Lab Automation market data and outlook to 2034

United States

Canada

Mexico

Europe — Lab Automation market data and outlook to 2034

Germany

United Kingdom

France

Italy

Spain

BeNeLux

Russia

Sweden

Asia-Pacific — Lab Automation market data and outlook to 2034

China

Japan

India

South Korea

Australia

Indonesia

Malaysia

Vietnam

Middle East and Africa — Lab Automation market data and outlook to 2034

Saudi Arabia

South Africa

Iran

UAE

Egypt

South and Central America — Lab Automation market data and outlook to 2034

Brazil

Argentina

Chile

Peru

*\* We can include data and analysis of additional countries on demand.*

## Research Methodology

This study combines primary inputs from industry experts across the Lab Automation value chain with secondary data from associations, government publications, trade databases, and company disclosures. Proprietary modeling techniques, including data triangulation, statistical correlation, and scenario planning, are applied to deliver reliable market sizing and forecasting.

## Key Questions Addressed

What is the current and forecast market size of the Lab Automation industry at global, regional, and country levels?

Which types, applications, and technologies present the highest growth potential?

How are supply chains adapting to geopolitical and economic shocks?

What role do policy frameworks, trade flows, and sustainability targets play in shaping demand?

Who are the leading players, and how are their strategies evolving in the face of global uncertainty?

Which regional “hotspots” and customer segments will outpace the market, and what go-to-market and partnership models best support entry and expansion?

Where are the most investable opportunities—across technology roadmaps, sustainability-linked innovation, and M&A—and what is the best segment to invest over the next 3–5 years?

## Your Key Takeaways from the Lab Automation Market Report

Global Lab Automation market size and growth projections (CAGR), 2024-2034

Impact of Russia-Ukraine, Israel-Palestine, and Hamas conflicts on Lab Automation trade, costs, and supply chains

Lab Automation market size, share, and outlook across 5 regions and 27 countries, 2023-2034

Lab Automation market size, CAGR, and market share of key products, applications, and end-user verticals, 2023-2034

Short- and long-term Lab Automation market trends, drivers, restraints, and opportunities

Porter’s Five Forces analysis, technological developments, and Lab Automation supply chain analysis

Lab Automation trade analysis, Lab Automation market price analysis, and Lab Automation supply/demand dynamics

Profiles of 5 leading companies—overview, key strategies, financials, and products

Latest Lab Automation market news and developments

## Additional Support

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