

# Laboratory Automation Market: Global Industry Trends, Share, Size, Growth, Opportunity and Forecast 2023-2028

<https://marketpublishers.com/r/LA8E71C4F11EN.html>

Date: March 2023

Pages: 126

Price: US\$ 2,499.00 (Single User License)

ID: LA8E71C4F11EN

## Abstracts

The global laboratory automation market size reached US\$ 6.1 Billion in 2022. Looking forward, IMARC Group expects the market to reach US\$ 9.4 Billion by 2028, exhibiting a growth rate (CAGR) of 7.3% during 2023-2028.

Laboratory automation can be defined broadly as any device, software or process that requires minimal human intervention and improves the efficiency of the laboratory. Laboratory automation may include the use of robots, conveyors, software, machine vision, etc.

Laboratory automation has played a major role in saving time, reducing costs, eliminating human error and improving the efficiency of experiments. As a result, automation has moved past the “nice to have” to the “must have” in the modern laboratory. Laboratory teams today are continually looking for ways to increase their efficiency and improve the long-term value of their operations. Organisations are now adopting laboratory automation solutions to enhance their work and maximize the efficiency of their testing processes.

### Market Drivers:

Laboratory automation is playing a major role in maximizing the accuracy of laboratory results and minimizing human errors to ensure that work is completed efficiently. It also enables the laboratory to deliver the reports quickly ensuring that actionable data is available on a short notice for review.

Automation is also enabling laboratories to reduce manual work. Automation solutions can complete many testing processes that would otherwise require significant amount of

manual work. Labor costs account for a significant share of the total laboratory costs. Moreover, automation systems improve the productivity of labs and reduce the increase in costs that may arise due to wastage.

The application of automation systems has also led to a significant increase in the productivity of the drug discovery process. These systems can operate for long hours with minimal monitoring and instruction. They also allow more time for researchers to focus on their core work and reduce their time on repetitive tasks

Automated testing solutions enable the ideal ways to protect data and ensure that it is easily available for lab teams. These systems also improve productivity of lab teams as they can track everything that happens to a sample, enabling them to view its entire history.

#### Key Market Segmentation:

IMARC Group provides an analysis of the key trends in each sub-segment of the global laboratory automation market report, along with forecasts at the global and regional level from 2023-2028. Our report has categorized the market based on type, equipment and software type and end-user.

#### Breakup by Type:

- Modular Automation
- Whole Lab Automation

Based on the type, the market has been segmented into modular automation and whole lab automation. Modular automation currently dominates this market.

#### Breakup by Equipment and Software Type:

- Automated Clinical Laboratory Systems
- Workstations
- LIMS (Laboratory Information Management Systems)
- Sample Transport Systems
- Specimen Handling Systems
- Storage Retrieval Systems
- Automated Drug Discovery Laboratory Systems
- Plate Readers
- Automated Liquid Handling Systems
- LIMS (Laboratory Information Management Systems)
- Robotic Systems

## Storage Retrieval Systems Dissolution Testing Systems

Based on the equipment/software type, the market has been segmented into automated clinical laboratory systems and automated drug discovery laboratory systems. Currently, automated clinical laboratory systems represents the larger segment. The automated clinical laboratory systems have been further segmented into automated workstations, LIMS, sample transport systems, specimen handling systems and storage retrieval systems. Similarly, the automated drug discovery laboratory systems have been further segmented into automated plate readers, automated liquid handling systems, LIMS, robotics, storage retrieval systems and dissolution testing systems.

### Breakup by End-User:

Biotechnology and Pharmaceutical Companies  
Hospitals and Diagnostic Laboratories  
Research and Academic Institutes

Based on the end-users, the market has been segmented into biotechnology and pharmaceutical companies; hospitals and diagnostic laboratories; and research and academic institutes.

### Breakup by Region:

North America  
Asia-Pacific  
Europe  
Latin America  
Middle East and Africa

Region-wise, the market has been segmented into North America, Europe, Asia Pacific, Middle East and Africa, and Latin America. Amongst these, North America is the biggest market

### Competitive Landscape:

The competitive landscape of the market has also been examined with some of the key players being Danaher, PerkinElmer, Tecan Group, Thermo Fisher, Abbott Diagnostics, Agilent Technologies, Aurora Biomed, Becton, Dickinson and Company, Biomatrix, Biotech Instruments, Brooks Automation, Cerner, Eppendorf, Hamilton Storage

Technologies, LabVantage Solutions, Labware, Olympus, Qiagen, Roche Holding, Siemens Healthcare, etc.

This report provides a deep insight into the global laboratory automation market covering all its essential aspects. This ranges from macro overview of the market to micro details of the industry performance, recent trends, key market drivers and challenges, SWOT analysis, Porter's five forces analysis, value chain analysis, etc. This report is a must-read for entrepreneurs, investors, researchers, consultants, business strategists, and all those who have any kind of stake or are planning to foray into the laboratory automation industry in any manner.

### Key Questions Answered in This Report

1. What was the global laboratory automation market size in 2022?
2. What will be the global laboratory automation market outlook during the forecast period (2023-2028)?
3. What are the global laboratory automation market drivers?
4. What are the major trends in the global laboratory automation market?
5. What is the impact of COVID-19 on the global laboratory automation market?
6. What is the global laboratory automation market breakup by type?
7. What is the global laboratory automation market breakup by equipment and software type?
8. What is the global laboratory automation market breakup by end user?
9. What are the major regions in the global laboratory automation market?

## Contents

### **1 PREFACE**

### **2 SCOPE AND METHODOLOGY**

- 2.1 Objectives of the Study
- 2.2 Stakeholders
- 2.3 Data Sources
  - 2.3.1 Primary Sources
  - 2.3.2 Secondary Sources
- 2.4 Market Estimation
  - 2.4.1 Bottom-Up Approach
  - 2.4.2 Top-Down Approach
- 2.5 Forecasting Methodology

### **3 EXECUTIVE SUMMARY**

### **4 INTRODUCTION**

- 4.1 Overview
- 4.2 Key Industry Trends

### **5 GLOBAL LABORATORY AUTOMATION MARKET**

- 5.1 Market Overview
- 5.2 Market Performance
- 5.3 Impact of COVID-19
- 5.4 Market Breakup by Type
- 5.5 Market Breakup by Equipment and Software Type
- 5.6 Market Breakup by End-User
- 5.7 Market Breakup by Region
- 5.8 Market Forecast
- 5.9 SWOT Analysis
  - 5.9.1 Overview
  - 5.9.2 Strengths
  - 5.9.3 Weaknesses
  - 5.9.4 Opportunities
  - 5.9.5 Threats

- 5.10 Value Chain Analysis
- 5.11 Porters Five Forces Analysis
  - 5.11.1 Overview
  - 5.11.2 Bargaining Power of Buyers
  - 5.11.3 Bargaining Power of Suppliers
  - 5.11.4 Degree of Competition
  - 5.11.5 Threat of New Entrants
  - 5.11.6 Threat of Substitutes

## **6 MARKET BREAKUP BY TYPE**

- 6.1 Modular Automation
  - 6.1.1 Market Trends
  - 6.1.2 Market Forecast
- 6.2 Whole Lab Automation
  - 6.2.1 Market Trends
  - 6.2.2 Market Forecast

## **7 MARKET BREAKUP BY EQUIPMENT AND SOFTWARE TYPE**

- 7.1 Automated Clinical Laboratory Systems
  - 7.1.1 Workstations
    - 7.1.1.1 Market Trends
    - 7.1.1.2 Market Forecast
  - 7.1.2 LIMS (Laboratory Information Management Systems)
    - 7.1.2.1 Market Trends
    - 7.1.2.2 Market Forecast
  - 7.1.3 Sample Transport Systems
    - 7.1.3.1 Market Trends
    - 7.1.3.2 Market Forecast
  - 7.1.4 Specimen Handling Systems
    - 7.1.4.1 Market Trends
    - 7.1.4.2 Market Forecast
  - 7.1.5 Storage Retrieval Systems
    - 7.1.5.1 Market Trends
    - 7.1.5.2 Market Forecast
- 7.2 Automated Drug Discovery Laboratory Systems
  - 7.2.1 Plate Readers
    - 7.2.1.1 Market Trends

- 7.2.1.2 Market Forecast
- 7.2.2 Automated Liquid Handling Systems
  - 7.2.2.1 Market Trends
  - 7.2.2.2 Market Forecast
- 7.2.3 LIMS (Laboratory Information Management Systems)
  - 7.2.3.1 Market Trends
  - 7.2.3.2 Market Forecast
- 7.2.4 Robotic Systems
  - 7.2.4.1 Market Trends
  - 7.2.4.2 Market Forecast
- 7.2.5 Storage Retrieval Systems
  - 7.2.5.1 Market Trends
  - 7.2.5.2 Market Forecast
- 7.2.6 Dissolution Testing Systems
  - 7.2.6.1 Market Trends
  - 7.2.6.2 Market Forecast

## **8 MARKET BREAKUP BY END-USER**

- 8.1 Biotechnology and Pharmaceutical Companies
  - 8.1.1 Market Trends
  - 8.1.2 Market Forecast
- 8.2 Hospitals and Diagnostic Laboratories
  - 8.2.1 Market Trends
  - 8.2.2 Market Forecast
- 8.3 Research and Academic Institutes
  - 8.3.1 Market Trends
  - 8.3.2 Market Forecast

## **9 MARKET BREAKUP BY REGION**

- 9.1 North America
  - 9.1.1 Market Trends
  - 9.1.2 Market Forecast
- 9.2 Europe
  - 9.2.1 Market Trends
  - 9.2.2 Market Forecast
- 9.3 Asia Pacific
  - 9.3.1 Market Trends

- 9.3.2 Market Forecast
- 9.4 Middle East and Africa
  - 9.4.1 Market Trends
  - 9.4.2 Market Forecast
- 9.5 Latin America
  - 9.5.1 Market Trends
  - 9.5.2 Market Forecast

## **10 COMPETITIVE LANDSCAPE**

- 10.1 Market Structure
- 10.2 Key Players
- 10.3 Profiles of Key Players
  - 10.3.1 Danaher
  - 10.3.2 PerkinElmer
  - 10.3.3 Tecan Group
  - 10.3.4 Thermo Fisher
  - 10.3.5 Abbott Diagnostics
  - 10.3.6 Agilent Technologies
  - 10.3.7 Aurora Biomed
  - 10.3.8 Becton, Dickinson and Company
  - 10.3.9 Biomatrix
  - 10.3.10 Biotech Instruments
  - 10.3.11 Brooks Automation
  - 10.3.12 Cerner
  - 10.3.13 Eppendorf
  - 10.3.14 Hamilton Storage Technologies
  - 10.3.15 LabVantage Solutions
  - 10.3.16 Labware
  - 10.3.17 Olympus
  - 10.3.18 Qiagen
  - 10.3.19 Roche Holding
  - 10.3.20 Siemens Healthcare



## List Of Tables

### LIST OF TABLES

Table 1: Global: Laboratory Automation Market: Key Industry Highlights, 2022 and 2028

Table 2: Global: Laboratory Automation Market Forecast: Breakup by Type (in Million US\$), 2023-2028

Table 3: Global: Laboratory Automation Market Forecast: Breakup by Equipment and Software Type (in Million US\$), 2023-2028

Table 4: Global: Laboratory Automation Market Forecast: Breakup by End-User (in Million US\$), 2023-2028

Table 5: Global: Laboratory Automation Market Forecast: Breakup by Region (in Million US\$), 2023-2028

Table 6: Global: Laboratory Automation Market: Competitive Structure

Table 7: Global: Laboratory Automation Market: Key Players

## List Of Figures

### LIST OF FIGURES

Figure 1: Global: Laboratory Automation Market: Major Drivers and Challenges

Figure 2: Global: Laboratory Automation Market: Sales Value (in Billion US\$), 2017-2022

Figure 3: Global: Laboratory Automation Market: Breakup by Type (in %), 2022

Figure 4: Global: Laboratory Automation Market: Breakup by Equipment and Software Type (in %), 2022

Figure 5: Global: Laboratory Automation Market: Breakup by End-User (in %), 2022

Figure 6: Global: Laboratory Automation Market: Breakup by Region (in %), 2022

Figure 7: Global: Laboratory Automation Market Forecast: Sales Value (in Billion US\$), 2023-2028

Figure 8: Global: Laboratory Automation Industry: SWOT Analysis

Figure 9: Global: Laboratory Automation Industry: Value Chain Analysis

Figure 10: Global: Laboratory Automation Industry: Porter's Five Forces Analysis

Figure 11: Global: Laboratory Automation Market (Modular Automation): Sales Value (in Million US\$), 2017 & 2022

Figure 12: Global: Laboratory Automation Market Forecast (Modular Automation): Sales Value (in Million US\$), 2023-2028

Figure 13: Global: Laboratory Automation Market (Whole Lab Automation): Sales Value (in Million US\$), 2017 & 2022

Figure 14: Global: Laboratory Automation Market Forecast (Whole Lab Automation): Sales Value (in Million US\$), 2023-2028

Figure 15: Global: Laboratory Automation Market (Automated Clinical Laboratory Systems): Sales Value (in Million US\$), 2017 & 2022

Figure 16: Global: Automated Clinical Laboratory Systems Market (Workstations): Sales Value (in Million US\$), 2017 & 2022

Figure 17: Global: Automated Clinical Laboratory Systems Market Forecast (Workstations): Sales Value (in Million US\$), 2023-2028

Figure 18: Global: Automated Clinical Laboratory Systems Market (LIMS): Sales Value (in Million US\$), 2017 & 2022

Figure 19: Global: Automated Clinical Laboratory Systems Market Forecast (LIMS): Sales Value (in Million US\$), 2023-2028

Figure 20: Global: Automated Clinical Laboratory Systems Market (Sample Transport): Sales Value (in Million US\$), 2017 & 2022

Figure 21: Global: Automated Clinical Laboratory Systems Market Forecast (Sample Transport): Sales Value (in Million US\$), 2023-2028

Figure 22: Global: Automated Clinical Laboratory Systems Market (Specimen Handling): Sales Value (in Million US\$),2017 & 2022

Figure 23: Global: Automated Clinical Laboratory Systems Market Forecast (Specimen Handling): Sales Value (in Million US\$), 2023-2028

Figure 24: Global: Automated Clinical Laboratory Systems Market (Storage Retrieval): Sales Value (in Million US\$),2017 & 2022

Figure 25: Global: Automated Clinical Laboratory Systems Market Forecast (Storage Retrieval): Sales Value (in Million US\$), 2023-2028

Figure 26: Global: Laboratory Automation Market Forecast (Automated Clinical Laboratory Systems): Sales Value (in Million US\$), 2023-2028

Figure 27: Global: Laboratory Automation Market (Automated Drug Discovery Laboratory Systems): Sales Value (in Million US\$),2017 & 2022

Figure 28: Global: Automated Drug Discovery Laboratory Systems Market (Plate Readers): Sales Value (in Million US\$),2017 & 2022

Figure 29: Global: Automated Drug Discovery Laboratory Systems Market Forecast (Plate Readers): Sales Value (in Million US\$), 2023-2028

Figure 30: Global: Automated Drug Discovery Laboratory Systems Market (Liquid Handling): Sales Value (in Million US\$),2017 & 2022

Figure 31: Global: Automated Drug Discovery Laboratory Systems Market Forecast (Liquid Handling): Sales Value (in Million US\$), 2023-2028

Figure 32: Global: Automated Drug Discovery Laboratory Systems Market (LIMS): Sales Value (in Million US\$),2017 & 2022

Figure 33: Global: Automated Drug Discovery Laboratory Systems Market Forecast (LIMS): Sales Value (in Million US\$), 2023-2028

Figure 34: Global: Automated Drug Discovery Laboratory Systems Market (Robotic Systems): Sales Value (in Million US\$),2017 & 2022

Figure 35: Global: Automated Drug Discovery Laboratory Systems Market Forecast (Robotic Systems): Sales Value (in Million US\$), 2023-2028

Figure 36: Global: Automated Drug Discovery Laboratory Systems Market (Storage Retrieval): Sales Value (in Million US\$),2017 & 2022

Figure 37: Global: Automated Drug Discovery Laboratory Systems Market Forecast (Storage Retrieval): Sales Value (in Million US\$), 2023-2028

Figure 38: Global: Automated Drug Discovery Laboratory Systems Market (Dissolution Testing): Sales Value (in Million US\$),2017 & 2022

Figure 39: Global: Automated Drug Discovery Laboratory Systems Market Forecast (Dissolution Testing): Sales Value (in Million US\$), 2023-2028

Figure 40: Global: Laboratory Automation Market Forecast (Automated Drug Discovery Laboratory Systems): Sales Value (in Million US\$), 2023-2028

Figure 41: Global: Laboratory Automation Market (in Biotechnology and Pharmaceutical

Companies): Sales Value (in Million US\$),2017 & 2022

Figure 42: Global: Laboratory Automation Market Forecast (in Biotechnology and Pharmaceutical Companies): Sales Value (in Million US\$), 2023-2028

Figure 43: Global: Laboratory Automation Market (in Hospitals and Diagnostic Laboratories): Sales Value (in Million US\$),2017 & 2022

Figure 44: Global: Laboratory Automation Market Forecast (in Hospitals and Diagnostic Laboratories): Sales Value (in Million US\$), 2023-2028

Figure 45: Global: Laboratory Automation Market (in Research and Academic Institutes): Sales Value (in Million US\$),2017 & 2022

Figure 46: Global: Laboratory Automation Market Forecast (in Research and Academic Institutes): Sales Value (in Million US\$), 2023-2028

Figure 47: North America: Laboratory Automation Market: Sales Value (in Million US\$),2017 & 2022

Figure 48: North America: Laboratory Automation Market Forecast: Sales Value (in Million US\$), 2023-2028

Figure 49: Europe: Laboratory Automation Market: Sales Value (in Million US\$),2017 & 2022

Figure 50: Europe: Laboratory Automation Market Forecast: Sales Value (in Million US\$), 2023-2028

Figure 51: Asia Pacific: Laboratory Automation Market: Sales Value (in Million US\$),2017 & 2022

Figure 52: Asia Pacific: Laboratory Automation Market Forecast: Sales Value (in Million US\$), 2023-2028

Figure 53: Middle East and Africa: Laboratory Automation Market: Sales Value (in Million US\$),2017 & 2022

Figure 54: Middle East and Africa: Laboratory Automation Market Forecast: Sales Value (in Million US\$), 2023-2028

Figure 55: Latin America: Laboratory Automation Market: Sales Value (in Million US\$),2017 & 2022

Figure 56: Latin America: Laboratory Automation Market Forecast: Sales Value (in Million US\$), 2023-2028

## I would like to order

Product name: Laboratory Automation Market: Global Industry Trends, Share, Size, Growth, Opportunity and Forecast 2023-2028

Product link: <https://marketpublishers.com/r/LA8E71C4F11EN.html>

Price: US\$ 2,499.00 (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/LA8E71C4F11EN.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

