

# **Lab Automation Market: Distribution by Stage of Automation (Pre-analytical Stage, Analytical Stage, Post-Analytical Stage and Total Lab Automation), Type of Instrument (Automated Liquid Handling Systems, Automated Microplate Readers, Automated Sampling Systems, Analyzers, Automated Storage and Retrieval Systems (ASRS) and Other Instruments), Application (Diagnostics, Genomic Solutions, Microbiology, Drug Discovery, Proteomic Solutions and Other Applications), End-user (Pharmaceutical and Biotechnology Companies, Research and Diagnostic Laboratories and Other End-Users) and Key Geographical Regions (North America, Europe, Asia-Pacific, Middle East and North Africa and Latin America): Industry Trends and Global Forecasts, 2023-2035**

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## **Abstracts**

The lab automation market is expected to reach USD 5.5 billion in 2023 anticipated to grow at a CAGR of 9.3% during the forecast period 2023-2035.

Due to the growing demand for complex biopharmaceuticals, laboratories worldwide are increasingly offering analytical and product development solutions. Maintaining

meticulous control over variables and parameters at every stage of laboratory processes is crucial. However, traditional manual handling presents several challenges such as increased susceptibility to sample contamination, higher labor costs, time management constraints, operator inconsistencies, and limited instant data access. A Nature article highlighted that over 70% of scientists faced difficulties replicating previously published experiments, emphasizing the need for precision and reliability in scientific pursuits. Consequently, there is a clear need for instruments capable of reducing errors, saving time and resources, and improving reproducibility. In response, lab automation has emerged as a viable solution, aiming to address the issues associated with manual processes. By automating labor-intensive and repetitive tasks, automated technologies allow researchers to focus on specialized operations. Automated sampling systems offer additional benefits including real-time data monitoring, reducing deviations by approximately 65%, and increasing overall productivity by up to 80%. Additionally, lab automation helps decrease the likelihood of human errors while ensuring data precision and traceability.

The forecast predicts substantial growth in the lab automation market in the upcoming years, primarily driven by significant advancements and the adaptability of lab automation and its modules to meet specific requirements.

## Report Coverage

The report examines the lab automation market across various categories, including type of instrument, application, end-user and key geographical regions.

It analyzes market growth factors such as drivers, restraints, opportunities, and challenges.

Evaluation of potential advantages and obstacles within the market landscape is provided, along with insights into the competitive environment for leading market players.

Revenue forecasts for market segments are projected concerning five major regions.

The executive summary encapsulates research insights on the current state and anticipated evolution of the lab automation market in the medium to long term, offering a high-level perspective on historical evolution, stages, advantages, challenges, and future prospects.

A comprehensive overview of lab automation detailing its historical progression, stages, processes, benefits, challenges, and future prospects is presented.

Assessment of approximately 350 lab automation system manufacturers based on parameters like establishment year, company size, headquarters location, types of automation systems, stages of automation, application areas, and served end-users is conducted.

Competitive analysis of manufacturers focuses on parameters such as company establishment duration, product diversity, and strengths across various automation stages, application areas, and end-users.

Detailed profiles of key players in North America, Europe, Asia-Pacific, and Rest of the World are provided, encompassing company overviews, financial details (if available), product portfolios, recent developments, and future projections.

A case study offers an in-depth analysis of lab automation software providers, covering aspects such as establishment year, company size, headquarters location, software types, deployment modes, and served end-users.

Detailed analysis scrutinizes partnerships established within the lab automation field since 2018, evaluating parameters including partnership year, types, involved partners, automation instrument types, active players, and regional distribution of partnership activities.

An in-depth patent analysis examines patents filed/granted related to lab automation since 2018, considering parameters like publication year, patent types, jurisdictions, applicant types, emerging focus areas, leading players, individual assignees, patent benchmarking, and valuation based on citation counts.

## Key Market Companies

Abbott

Anton Paar

BD

Beckman Coulter

ERWEKA

Leuze

Ortho Clinical Diagnostics

Pall Corporation

PerkinElmer

Roche Diagnostics

Siemens Healthineers

SYSTAG

## Contents

### 1. PREFACE

- 1.1. Introduction
- 1.2. Key Market Insights
- 1.3. Scope of the Report
- 1.4. Research Methodology
- 1.5. Frequently Asked Questions
- 1.6. Chapter Outlines

### 2. EXECUTIVE SUMMARY

### 3. INTRODUCTION

- 3.1. Overview of Lab Automation
- 3.2. Historical Evolution of Lab Automation
- 3.3. Stages of Lab Automation
- 3.4. Process of Lab Automation
- 3.5. Advantages of Lab Automation Over Manual Handling
- 3.6. Challenges associated with Lab Automation
- 3.7. Future Perspectives

### 4. MARKET LANDSCAPE

- 4.1. Lab Automation System Manufacturers: Overall Market Landscape
  - 4.1.1. Analysis by Year of Establishment
  - 4.1.2. Analysis by Company Size
  - 4.1.3. Analysis by Location of Headquarters
  - 4.1.4. Analysis by Company Size and Location of Headquarters
  - 4.1.5. Analysis by Type of Lab Automation System(s)
  - 4.1.6. Analysis by Type of Automated Liquid Handler(s)
  - 4.1.7. Analysis by Type of Automated Microplate(s)
  - 4.1.8. Analysis by Stage(s) of Automation
  - 4.1.9. Analysis by Application Area(s)
  - 4.1.10. Analysis by Type of Lab Automation System(s) and Application Area(s)
  - 4.1.11. Analysis by End-user(s)
  - 4.1.12. Analysis by Stage(s) of Automation and End-user(s)

## **5. COMPANY COMPETITIVENESS ANALYSIS**

5.1. Assumptions and Key Parameters

5.2 Methodology

5.3. Competitiveness Analysis: Very Small Companies based in North America (Peer Group I)

5.4. Competitiveness Analysis: Small Companies based in North America (Peer Group II)

5.5 Competitiveness Analysis: Mid-sized Players based in North America (Peer Group III)

5.5. Competitiveness Analysis: Large Companies based in North America (Peer Group IV)

5.6. Competitiveness Analysis: Very Large Companies based in North America (Peer Group V)

5.7 Competitiveness Analysis: Very Small Companies based in Europe (Peer Group VI)

5.8 Competitiveness Analysis: Small Companies based in Europe (Peer Group VII)

5.9. Competitiveness Analysis: Mid-sized Companies based in Europe (Peer Group VIII)

5.10. Competitiveness Analysis: Large Companies based in Europe (Peer Group IX)

5.11. Competitiveness Analysis: Very Large Companies based in Europe (Peer Group X)

5.12. Competitiveness Analysis: Very Small Companies based in Asia-Pacific and Rest of the World (Peer Group XI)

5.13. Competitiveness Analysis: Small Companies based in Asia-Pacific and Rest of the World (Peer Group XII)

5.14. Competitiveness Analysis: Mid-sized Companies based in Asia-Pacific and Rest of the World (Peer Group XIII)

5.15. Competitiveness Analysis: Large Companies based in Asia-Pacific and Rest of the World (Peer Group XIV)

5.16. Competitiveness Analysis: Very Large Companies based in Asia-Pacific and Rest of the World (Peer Group XV)

## **6. COMPANY PROFILES**

6.1. Abbott

6.1.1. Company Overview

6.1.2. Financial Information

6.1.3. Lab Automation Product Portfolio

6.1.4. Recent Developments and Future Outlook

6.2. Anton Paar

- 6.2.1. Company Overview
- 6.2.2. Financial Information
- 6.2.3. Lab Automation Product Portfolio
- 6.2.4. Recent Developments and Future Outlook
- 6.3. BD
  - 6.3.1. Company Overview
  - 6.3.2. Financial Information
  - 6.3.3. Lab Automation Product Portfolio
  - 6.3.4. Recent Developments and Future Outlook
- 6.4. Beckman Coulter
  - 6.4.1. Company Overview
  - 6.4.2. Financial Information
  - 6.4.3. Lab Automation Product Portfolio
  - 6.4.4. Recent Developments and Future Outlook
- 6.5. ERWEKA
  - 6.5.1. Company Overview
  - 6.5.2. Financial Information
  - 6.5.3. Lab Automation Product Portfolio
  - 6.5.4. Recent Developments and Future Outlook
- 6.6. Leuze
  - 6.6.1. Company Overview
  - 6.6.2. Financial Information
  - 6.6.3. Lab Automation Product Portfolio
  - 6.6.4. Recent Developments and Future Outlook
- 6.7. Ortho Clinical Diagnostics
  - 6.7.1. Company Overview
  - 6.7.2. Financial Information
  - 6.7.3. Lab Automation Product Portfolio
  - 6.7.4. Recent Developments and Future Outlook
- 6.8. Pall Corporation
  - 6.8.1. Company Overview
  - 6.8.2. Financial Information
  - 6.8.3. Lab Automation Product Portfolio
  - 6.8.4. Recent Developments and Future Outlook
- 6.9. PerkinElmer
  - 6.9.1. Company Overview
  - 6.9.2. Financial Information
  - 6.9.3. Lab Automation Product Portfolio
  - 6.9.4. Recent Developments and Future Outlook

- 6.10. Roche Diagnostics
  - 6.10.1. Company Overview
  - 6.10.2. Financial Information
  - 6.10.3. Lab Automation Product Portfolio
  - 6.10.4. Recent Developments and Future Outlook
- 6.11. Siemens Healthineers
  - 6.11.1. Company Overview
  - 6.11.2. Financial Information
  - 6.11.3. Lab Automation Product Portfolio
  - 6.11.4. Recent Developments and Future Outlook
- 6.12. SYSTAG
  - 6.12.1. Company Overview
  - 6.12.2. Financial Information
  - 6.12.3. Lab Automation Product Portfolio
  - 6.12.4. Recent Developments and Future Outlook

## **7. CASE STUDY: LAB AUTOMATION SOFTWARE**

- 7.1. Lab Automation Software Providers: Overall Market Landscape
  - 7.1.1. Analysis by Year of Establishment
  - 7.1.2. Analysis by Company Size
  - 7.1.3. Analysis by Location of Headquarters
  - 7.1.4. Analysis by Company Size and Location of Headquarters
  - 7.1.5. Analysis by Type of Software
  - 7.1.6. Analysis by Mode(s) of Deployment
  - 7.1.7. Analysis by Type of Software and Mode(s) of Deployment
  - 7.1.8. Analysis by End-user(s)
  - 7.1.9. Analysis by Type of Software and End-user(s)

## **8. PARTNERSHIPS AND COLLABORATIONS**

- 8.1. Partnership Models
- 8.2. Lab Automation: List of Partnerships and Collaborations
  - 8.2.1. Analysis by Year of Partnership
  - 8.2.2. Analysis by Type of Partnership
  - 8.2.3. Analysis by Year and Type of Partnership
  - 8.2.4. Analysis by Type of Partner
  - 8.2.5. Analysis by Year of Partnership and Type of Partner
  - 8.2.6. Analysis by Type of Partnership and Type of Partner



- 8.2.7. Analysis by Type of Automation Instrument(s)
- 8.2.8. Analysis by Type of Partnership and Automation Instrument(s)
- 8.2.9. Most Active Players: Analysis by Number of Partnerships
- 8.2.10. Analysis by Geography
  - 8.2.10.1. Local and International Agreements
  - 8.2.10.2. Intracontinental and Intercontinental Agreements

## **9. PATENT ANALYSIS**

- 9.1. Methodology and Key Parameters
- 9.2. Lab Automation: List of Patents
- 9.3. Analysis by Patent Publication Year
- 9.4. Analysis by Publication Year and Type of Patent
- 9.5. Analysis by Application Year
- 9.6. Analysis by Patent Jurisdiction
- 9.7. Analysis by CPC Symbols
- 9.8. Analysis by Type of Applicant
- 9.9. Word Cloud: Emerging Focus Areas
- 9.10. Analysis by Patent Age
- 9.11. Leading Industry Players: Analysis by Number of Patents
- 9.12. Leading Non-Industry Players: Analysis by Number of Patents
- 9.13. Leading Individual Assignees: Analysis by Number of Patents
- 9.14. Patent Benchmarking: Analysis of Leading Industry Players by Patent Characterization (CPC Symbols)
- 9.15. Patent Valuation: Methodology and Key Parameters
  - 9.15.1. Analysis by Relative Patent Valuation

## **10. MARKET FORECAST AND OPPORTUNITY ANALYSIS**

- 10.1. Methodology and Key Assumptions
- 10.2. Global Lab Automation Market, 2023-2035
  - 10.2.1. Lab Automation Market: Distribution by Stage of Automation, 2023 and 2035
    - 10.2.1.1. Lab Automation Market for Pre-analytical Stage, 2023-2035
    - 10.2.1.2. Lab Automation Market for Analytical Stage, 2023-2035
    - 10.2.1.3. Lab Automation Market for Post-analytical Stage, 2023-2035
    - 10.2.1.4. Lab Automation Market for Total Lab Automation, 2023-2035
  - 10.2.2. Lab Automation Market: Distribution by Type of Instrument, 2023 and 2035
    - 10.2.2.1. Lab Automation Market for Automated Liquid Handling Systems, 2023-2035
    - 10.2.2.2. Lab Automation Market for Automated Microplate Readers, 2023-2035

- 10.2.2.3. Lab Automation Market for Automated Sampling Systems, 2023-2035
- 10.2.2.4. Lab Automation Market for Analyzers, 2023-2035
- 10.2.2.5. Lab Automation Market for Automated Storage and Retrieval Systems (ASRS), 2023-2035
- 10.2.2.6. Lab Automation Market for Other Instruments, 2023-2035
- 10.2.3. Lab Automation Market: Distribution by Application, 2023 and 2035
  - 10.2.3.1. Lab Automation Market for Diagnostics, 2023-2035
  - 10.2.3.2. Lab Automation Market for Genomic Solutions, 2023-2035
  - 10.2.3.3. Lab Automation Market for Microbiology, 2023-2035
  - 10.2.3.4. Lab Automation Market for Drug Discovery, 2023-2035
  - 10.2.3.5. Lab Automation Market for Proteomic Solutions, 2023-2035
  - 10.2.3.6. Lab Automation Market for Other Applications, 2023-2035
- 10.2.4. Lab Automation Market: Distribution by End-user, 2023 and 2035
  - 10.2.4.1. Lab Automation Market for Research and Diagnostic Laboratories, 2023-2035
  - 10.2.4.2. Lab Automation Market for Biotechnology and Pharmaceutical Industries, 2023-2035
  - 10.2.4.3. Lab Automation Market for Other End-users, 2023-2035
- 10.2.5. Lab Automation Market: Distribution by Key Geographical Regions, 2023 and 2035
  - 10.2.5.1. Lab Automation Market in North America, 2023-2035
  - 10.2.5.2. Lab Automation Market in Europe, 2023-2035
  - 10.2.5.3. Lab Automation Market in Asia-Pacific, 2023-2035
  - 10.2.5.4. Lab Automation Market in Middle East and North Africa, 2023-2035
  - 10.2.5.5. Lab Automation Market in Latin America, 2023-2035

## **11. EXECUTIVE INSIGHTS**

- 11.1. Chapter Overview
- 11.2. Africa Medical Supplies Platform
  - 11.2.1. Company Overview
  - 11.2.2. Interview Transcript: Abiodun Sina-Olulana (Production and Supply Management Lead)
- 11.3. A.S.T. Biomedical
  - 11.3.1. Company Overview
  - 11.3.2. Interview Transcript: Barcella Mauro (Chief Executive Officer)
- 11.4. Berthold Technologies
  - 11.4.1. Company Overview
  - 11.4.2. Interview Transcript: Anonymous

## 11.5. Efevre Tech

### 11.5.1. Company Overview

### 11.5.2. Interview Transcript: Dimitris Kyriakou (Project Manager and Business Development)

## 11.6. HSE

### 11.6.1. Company Overview

### 11.6.2. Interview Transcript: Patrick Widler (Chief Commercial Officer)

## 11.7. Inheco

### 11.7.1. Company Overview

### 11.7.2. Interview Transcript: Daniel von Sierakowski (Account Manager)

## 11.8. LabWare

### 11.8.1. Company Overview

### 11.8.2. Interview Transcript: Mayookh Sengupta (Sales Manager)

## 11.9. SciRobotics

### 11.9.1. Company Overview

### 11.9.2. Interview Transcript: Shai Kaplan (Co-Founder and Co-Chief Executive Officer)

## **12. APPENDIX I: TABULATED DATA**

## **13. APPENDIX II: LIST OF COMPANIES AND ORGANIZATIONS**

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