Lab Automation Market by Product (Liquid Handling, Nucleic Acid Purification System, Microplate Reader, ELISA, Storage & Retrieval, LIMS, ELN Software), Application (Drug Discovery, Diagnostics, Genomics & Proteomics), End User – Global Forecast to 2030

https://marketpublishers.com/r/LEC480922633EN.html
Date: December 2023
Pages: 247
Price: US$ 4,175.00 (Single User License)
ID: LEC480922633EN

Abstracts

Lab Automation Market by Product (Liquid Handling, Nucleic Acid Purification System, Microplate Reader, ELISA, Storage & Retrieval, LIMS, ELN Software), Application (Drug Discovery, Diagnostics, Genomics & Proteomics), End User–Global Forecast to 2030

The global lab automation market is projected to reach $10.54 billion by 2030, at a CAGR of 7.2% from 2023 to 2030.

Following a comprehensive primary and secondary study and an in-depth analysis of the market scenario, this report provides the key drivers, constraints, challenges, and opportunities of the industry. This market is driven by the increasing pharmaceutical and biotech R&D expenditure, the growing demand for automated labs and instruments, the increasing prevalence of chronic and infectious diseases, and government initiatives supporting life sciences R&D.

Furthermore, growth in genomics & proteomics research, increasing focus on food quality and safety, rising awareness & growing adoption of personalized medicines, and emerging economies provide a significant growth opportunity for this market. However, the high costs of advanced lab automation equipment and funding and infrastructure limitations in developing countries may restrain the growth of this market. Additionally, equipment maintenance and repair and data security and privacy concerns pose a major challenge for the players operating in this market.

Among products, in 2023, the systems segment is expected to account for the largest share of the lab automation market. The large market share of this segment is attributed to the increased focus on drug development, the advantages of automated liquid handling systems to increase efficiency and productivity, reduced manual intervention, increasing prevalence of genetic diseases, and reduced errors.

Among applications, in 2023, the drug discovery segment is expected to account for the largest share of the lab automation market. The increasing pharmaceutical R&D, increased efficiency, high-throughput capability, producing more reproducible results, the ability of lab automation instruments to screen large numbers of compounds, and government initiatives supporting drug discovery and development are expected to boost the growth of this segment.

Among end users, in 2023, the pharmaceutical & biotechnology companies segment is expected to account for the largest share of the lab automation market. The large market share of this segment is attributed to factors such as rising demand for new drug discovery and development, growing focus on increasing overall productivity, and initiatives by pharmaceutical and biotechnology companies to expand their research capabilities by opening new research centers.

An in-depth analysis of the geographical scenario of the global lab automation market provides detailed qualitative and quantitative insights for the five major geographies: North America (U.S., Canada), Europe (Germany, France, U.K., Italy, Spain, Rest of Europe), Asia-Pacific (China, Japan, India), Latin America, and the Middle East & Africa.

In 2023, North America is expected to account for the largest share of the global lab automation market, followed by Europe, Asia-Pacific, Latin America, and the Middle East & Africa. Asia-Pacific is expected to be the fastest-growing region of the global lab automation market. This growth is primarily driven by the expanding pharmaceutical & biotechnology industry in the region, rapidly improving healthcare infrastructure, increasing pharmaceutical research, and increasing government funding.

The key players operating in the global lab automation market are Thermo Fisher Scientific, Inc. (U.S.), Bio-Rad Laboratories, Inc. (U.S.), Danaher Corporation (U.S.), Revvity, Inc. (U.S.), Agilent Technologies, Inc. (U.S.), Waters Corporation (U.S.), Tecan Group Ltd. (Switzerland), F. Hoffmann-La Roche AG (Switzerland), Siemens Healthineers AG (Germany), Abbott Laboratories (U.S.), Becton, Dickinson, and Company (U.S.), Hudson Robotics, Inc. (U.S.), and Hamilton Company (U.S.).

Scope of the Report:

Lab Automation Market Assessment–by Product

Systems

Automated Liquid Handling Systems

Automated Nucleic Acid Purification Systems

Automated ELISA Systems

Automated Microplate Readers

Automated Storage and Retrieval Systems

Other Lab Automation Systems

Note: Other lab automation systems include automated incubators, automated cell counters, and cell imaging systems.

Software

Laboratory Information Management Systems (LIMS)

Electronic Lab Notebook (ELN)

Workstation/Equipment Automation Software

Scientific Data Management Systems (SDMS)

Lab Automation Market Assessment–by Application

Drug Discovery

Clinical Diagnostics

Genomics & Proteomics Research

Other Applications

Note: Other applications include bioprocessing in biotechnology, cell analysis, basic research, forensic analysis, and quality control in the F&B industry.

Lab Automation Market Assessment–by End User

Pharmaceutical & Biotechnology Companies

Hospitals & Diagnostic Laboratories

Research & Academic Institutes

Other End Users

Note: Other end users include the food & agriculture industry, forensic laboratories, blood banks, and environmental & quality testing.

Lab Automation Market–by Geography

North America

U.S.

Canada

Europe

Germany

U.K.

France

Italy

Spain

Rest of Europe (RoE)

Asia-Pacific (APAC)

China

Japan

India

Rest of APAC (RoAPAC)

Latin America

Middle East & Africa

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