Robotic Arms In Laboratories Market - Growth, Trends, Covid-19 Impact, and Forecasts (2023 - 2028)

Market Report | 2023-01-23 | 110 pages | Mordor Intelligence

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Report description:

The Robotic Arms in Laboratories Market are expected to grow at a CAGR of 10.81% over the forecast period (2023 - 2028). Robotic arms are rapidly being used in research laboratories for applications that need flexibility, effective space use, and seamless integration of lab peripherals. With the simplicity with which the arms may be programmed, the adoption has expanded over time. Preparing samples, running analytical equipment, and handling sample material are all typical duties done by these robots. As a result, lab automation is the primary driver of laboratory robotic arm use.

Key Highlights
Following the commencement of the COVID-19 crisis, the two imprecise words of robots and robotics have acquired increased popularity. During this global health disaster, robots have assisted us by transporting health samples test kits, conducting surveillance, sanitizing public places, and doing various other life-saving tasks. For example, ABB's dual-arm mobile YuMi robot can navigate around humans using connected sensors. Its responsibilities include distributing medicines and bed linens to patients, among other things.
Businesses have begun to embrace robotic technology for critical process applications in response to the growing requirement to safeguard the safety of manual workers and the implementation of demanding regulatory norms in laboratories. Furthermore, robots are very efficient and maintain accuracy and precision. These variables are propelling robots usage in laboratories throughout the world.
Emerging markets are likely to provide considerable growth potential for Laboratory Robotics manufacturers and distributors during the projected period. Laboratory Robotics sales are increasing due to the rising demand for clinical diagnostic procedures. Major product manufacturers are expanding their distribution networks and production capabilities in new areas to increase their market share. This presents a prosperous prospect for Laboratory Robotics around the world.
Automated systems are being used in laboratories due to technical improvements and increased demand to give results. Lab

automation is becoming more popular due to its precision, enhanced data management capabilities, reduced repetitiveness, and eventually less human intervention resulting in higher throughput and accuracy.

Robotic Arms in Laboratories Market Trends

Increasing Trends Towards Worker's Safety in Labs

Laboratory experiments involve the usage of hazardous chemicals and substances that are harmful when coming into direct contact with the human body. Therefore, the increasing adoption of lab automation is significantly driving the adoption of robotic systems.
Laboratory robots may work in circumstances that are hazardous to people, such as working with hazardous chemicals or enduring extreme environmental conditions. This enables tests and activities that would not have been feasible without robotics, which would have taken much longer and presented a risk to the employees.
Concerns regarding the safety profile of the worker-robot interaction area have grown as more robots, particularly mobile robots, come into close contact with employees.
However, scientists are taking a variety of preventive precautions to mitigate the negative consequences of these substances. Researchers have been injured in a number of incidents as a result of these studies. Furthermore, they have the potential to cause mortality in some circumstances.
The demand for laboratory robots has risen dramatically as a result of these causes. Harmful robots ensure that humans are not directly exposed to these poisons, resulting in a safer work environment.

North America is Expected to Occupies the Largest Market Share

Due to the existence of the United States, a country with considerable spending in clinical research, North America is expected to have a significant share. Pfizer, Novartis, GlaxoSmithKline, J&J, and Novartis are just a few of the prominent pharmaceutical businesses based in this nation.
In addition, the country has the biggest number of contract research organizations (CROs). Syneos Health, IQVIA, Laboratory Corp. of America Holdings, and Parexel International Corp. are among the country's largest CROs. The market in the nation is extremely competitive, thanks to the presence of all of the main competitors in the business and strict FDA rules. Companies in the country are rapidly using robots and automation in labs to get a competitive advantage over competitors.
According to ClinicalTrials.gov, the incorporation of robots and automation has been a key component assisting the development of the clinical research sector, with more than 129,005 clinical trials filed in the United States in 2021. Furthermore, due to the growing adoption of robots and automation, there has been a huge increase in FDA approvals in recent years.

Robotic Arms in Laboratories Market Competitor Analysis

The laboratory robotics market is moderately competitive, owing to the presence of small and large players in the market running their business on national and international boundaries. The market appears to be moderately consolidated, with the key players adopting strategies like product innovation and mergers and acquisitions. Some of the key players in the market are PerkinElmer Inc., Thermo Fisher Scientific, Siemens AG, Tecan Group, among others. Some of the recent developments are:-

September 2021: The Hamilton Company and Rhinostics have teamed together to increase the quality and efficiency of nasopharyngeal and nasal sample processing by combining their capabilities. Hamilton's Microlab STAR, Microlab Prep automated liquid handling workstations or Microlab NIMBUS, and RHINOstic nasal swab collection equipment, as well as the LabElite DeCapper from Hamilton Storage Technologies, are used in the hands-free automated process.
March 2021: Thermo Fisher and Artificial, a software company, have created a strategic technological partnership to provide an integrated and comprehensive software automation platform for Thermo Fisher's COVID-19 Testing Platform. Artificial will give access to its aLab Suite software, which is intended to work with Thermo Scientific Momentum robotics gear and Workflow software, as part of the agreement.

Additional Benefits:

The market estimate (ME) sheet in Excel format
3 months of analyst support

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