

Global Laboratory Automation Robot Systems Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global Laboratory Automation Robot Systems market size is expected to reach \$ 4515 million by 2032, rising at a market growth of 6.9% CAGR during the forecast period (2026-2032).

Laboratory automation robot systems combine liquid-handling or sample-transport robots, robotic arms, track or mobile platforms, instrument interfaces, scheduling software, and data-management modules to execute pipetting, dispensing, mixing, incubation, analysis, sample transfer, and result recording through predefined or adaptive workflows. Key procurement criteria include throughput, repeatability, precision, device compatibility, exception handling, and walk-away operation. Systems are typically delivered as standalone workstations, integrated workcells, or lab-wide platforms. The blended gross margin is approximately 45%.

Demand is driven by drug discovery, high-throughput screening, omics research, cell and gene therapy development, clinical testing, and quality control. Rising workflow volumes, greater sample-processing complexity, shortages of experienced laboratory staff, and stricter requirements for consistency and end-to-end traceability are accelerating the shift from manual operations to automated and walk-away laboratories.

Product architectures are moving from standalone liquid-handling or transport devices toward modular workstations, multi-instrument robotic workcells, and lab-wide orchestration platforms. Machine vision, force control, exception recovery, digital twins, open interfaces, and AI-assisted scheduling are becoming important differentiators. Established global vendors retain advantages in liquid handling, device-driver libraries, and validation of large integrated systems, while newer suppliers compete through open architectures, modular deployment, lower retrofit costs, and localized service.

North America and Europe remain the main purchasing regions for high-end integrated systems, while adoption in Asia is expanding with investment in biopharmaceutical research, testing laboratories, and materials R&D. Opportunities are strongest in rapidly deployable standardized workcells, cross-vendor device connectivity, and workflow-specific hardware-software solutions. Key risks include high initial investment, lengthy method-transfer and validation cycles, inconsistent device interfaces, and insufficient project-delivery or after-sales capabilities.

Report Scope

This report studies the global Laboratory Automation Robot Systems production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for Laboratory Automation Robot Systems and provides market size (US\$ million) and Year-over-Year (YoY) Growth, considering 2025 as the base year. This report explores demand trends and competition, as well as details the characteristics of Laboratory Automation Robot Systems that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global Laboratory Automation Robot Systems total production and demand, 2021-2032, (Units)

Global Laboratory Automation Robot Systems total production value, 2021-2032, (USD Million)

Global Laboratory Automation Robot Systems production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (Units), (based on production site)

Global Laboratory Automation Robot Systems consumption by region & country, CAGR, 2021-2032 & (Units)

U.S. VS China: Laboratory Automation Robot Systems domestic production, consumption, key domestic manufacturers and share

Global Laboratory Automation Robot Systems production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (Units)

Global Laboratory Automation Robot Systems production by Type, production, value, CAGR, 2021-2032, (USD Million) & (Units)

Global Laboratory Automation Robot Systems production by Application, production, value, CAGR, 2021-2032, (USD Million) & (Units)

This report profiles key players in the global Laboratory Automation Robot Systems market based on the following parameters - company overview, production, value, price, gross margin, product portfolio, geographical presence, and key developments. Key companies covered as a part of this study include Thermo Fisher Scientific, Tecan, Hamilton, Beckman Coulter Life Sciences, Agilent Technologies, Revvity, HighRes Biosolutions, SPT Labtech, Opentrons, Biosero, etc.

This report also provides key insights about market drivers, restraints, opportunities, new product launches or approvals.

Stakeholders would have ease in decision-making through various strategy matrices used in analyzing the World Laboratory Automation Robot Systems market

Detailed Segmentation:

Each section contains quantitative market data including market by value (US\$ Millions), volume (production, consumption) & (Units) and average price (K US\$/Unit) by manufacturer, by Type, and by Application. Data is given for the years 2021-2032 by year with 2025 as the base year, 2026 as the estimate year, and 2027-2032 as the forecast year.

Global Laboratory Automation Robot Systems Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Laboratory Automation Robot Systems Market, Segmentation by Type:

- Single-Step Automation
- Multi-Step Workstation Automation
- Multi-Instrument Workcell Automation
- Lab-Wide Integrated Automation

Global Laboratory Automation Robot Systems Market, Segmentation by Robot Architecture:

- Gantry Robot Systems
- Articulated Arm Systems
- Track-Based Transport Systems
- Autonomous Mobile Robot Systems
- Hybrid Robot Systems

Global Laboratory Automation Robot Systems Market, Segmentation by Throughput Level:

- Low-Throughput Systems
- Medium-Throughput Systems
- High-Throughput Systems

Global Laboratory Automation Robot Systems Market, Segmentation by System Openness:

Closed Proprietary Systems

Vendor-Specific Modular Systems

Multi-Vendor Integrated Systems

Open Device-Agnostic Systems

Global Laboratory Automation Robot Systems Market, Segmentation by Application:

Drug Discovery and Screening

Genomics and Molecular Biology

Cell Biology and Bioprocessing

Clinical and Diagnostic Testing

Analytical Testing and Quality Control

Materials and Chemical R&D

Companies Profiled:

Thermo Fisher Scientific

Tecan

Hamilton

Beckman Coulter Life Sciences

Agilent Technologies

Revvity

HighRes Biosolutions

SPT Labtech

Opentrons

Biosero

Automata

Hudson Robotics

BioNex Solutions

Peak Analysis & Automation

Chemspeed Technologies

Labman Automation

MegaRobo

Bioyond

XImaging

RayKol

Robotic Biology Institute

Key Questions Answered:

1. How big is the global Laboratory Automation Robot Systems market?
2. What is the demand of the global Laboratory Automation Robot Systems market?
3. What is the year over year growth of the global Laboratory Automation Robot Systems market?
4. What is the production and production value of the global Laboratory Automation Robot Systems market?
5. Who are the key producers in the global Laboratory Automation Robot Systems market?

6. What are the growth factors driving the market demand?

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