

Global Laboratory Automated Microplate Washers Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global Laboratory Automated Microplate Washers market size is expected to reach \$ 264 million by 2032, rising at a market growth of 5.5% CAGR during the forecast period (2026-2032).

Laboratory Automated Microplate Washers are programmable instruments that perform plate washing with minimal operator intervention by dispensing wash solution into microplate wells and aspirating liquids in controlled cycles to remove unbound materials and reduce background signal in plate based assays. They typically include configurable wash parameters, stored protocols, and automation features such as plate detection, controlled aspiration and dispense behavior, and optional compatibility with stackers or automated sample handling systems. Their purpose is to standardize washing steps, improve reproducibility, and increase throughput compared with manual washing. The unit price of laboratory automated microplate washers typically ranges from \$2,000 to \$9,000, with industry gross margins between 40% and 60%.

Upstream, automated microplate washers depend on precision fluidics and motion subsystems including pumps, valves, manifolds, aspiration and dispense heads, tubing, reservoirs, and filtration, plus sensors, embedded controllers, power modules, plastics and metal enclosures, and instrument control software, supported by suppliers for machining, molding, PCB assemblies, and final calibration and validation. Downstream, they are sold through direct sales teams and laboratory distributors to biopharma and biotech laboratories, CROs, clinical and diagnostic labs, and academic core facilities, often bundled with readers and other plate workflow instruments and influenced by requirements for validation documentation, uptime, and service response. After installation, recurring revenue and customer stickiness come from preventive maintenance contracts, spare parts, wash heads and tubing sets, and support for method development and integration into automated workflows.

Laboratory automated microplate washers occupy a practical niche in bench level

automation where laboratories prioritize repeatability, contamination control, and throughput without moving to full robotic workcells. Demand is driven less by novelty and more by the economics of reducing hands on time, minimizing assay variability, and keeping routine plate workflows running reliably across multiple operators and sites. Competitive differentiation increasingly centers on integration readiness with stackers and liquid handlers, robust wash performance across diverse plate types, and software that supports standardized methods, auditability, and rapid changeover between protocols. Pricing pressure remains present because washing is often viewed as a utility step, so suppliers that win tend to combine dependable hardware with strong service coverage, validated workflows, and applications support that lowers the total cost of ownership.

This report studies the global Laboratory Automated Microplate Washers production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for Laboratory Automated Microplate Washers 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 Automated Microplate Washers that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global Laboratory Automated Microplate Washers total production and demand, 2021-2032, (Unit)

Global Laboratory Automated Microplate Washers total production value, 2021-2032, (USD Million)

Global Laboratory Automated Microplate Washers production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (Unit), (based on production site)

Global Laboratory Automated Microplate Washers consumption by region & country, CAGR, 2021-2032 & (Unit)

U.S. VS China: Laboratory Automated Microplate Washers domestic production, consumption, key domestic manufacturers and share

Global Laboratory Automated Microplate Washers production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (Unit)

Global Laboratory Automated Microplate Washers production by Type, production, value, CAGR, 2021-2032, (USD Million) & (Unit)

Global Laboratory Automated Microplate Washers production by Application, production, value, CAGR, 2021-2032, (USD Million) & (Unit)

This report profiles key players in the global Laboratory Automated Microplate Washers 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, Agilent

Technologies, Bio-Rad Laboratories, Tecan, Biobase, Molecular Devices, Berthold Technologies, Dynex Technologies, CYTENA, Awareness Technology, 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 Automated Microplate Washers market

Detailed Segmentation:

Each section contains quantitative market data including market by value (US\$ Millions), volume (production, consumption) & (Unit) and average price (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 Automated Microplate Washers Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Laboratory Automated Microplate Washers Market, Segmentation by Type:

General-purpose

Special-purpose

Global Laboratory Automated Microplate Washers Market, Segmentation by

Compatibility:

96-well Only

96 and 384-well Capable

Deep-well Compatible

Global Laboratory Automated Microplate Washers Market, Segmentation by Function:

Basic Type

Multifunctional Type

Global Laboratory Automated Microplate Washers Market, Segmentation by Application:

Hospitals and Clinical Labs

Biopharma and Biotech

CROs and CDMOs

Others

Companies Profiled:

Thermo Fisher Scientific

Agilent Technologies

Bio-Rad Laboratories

Tecan

Biobase

Molecular Devices

Berthold Technologies

Dynex Technologies

CYTENA

Awareness Technology

CAPP (AHN Biotechnologie)

Biosan

Mindray

Autobio

KHB

URIT

Rayto

Key Questions Answered:

1. How big is the global Laboratory Automated Microplate Washers market?
2. What is the demand of the global Laboratory Automated Microplate Washers market?
3. What is the year over year growth of the global Laboratory Automated Microplate Washers market?
4. What is the production and production value of the global Laboratory Automated Microplate Washers market?
5. Who are the key producers in the global Laboratory Automated Microplate Washers market?
6. What are the growth factors driving the market demand?

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