

Global Closed Automated Cell Processing Systems Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global Closed Automated Cell Processing Systems market size is expected to reach \$ 6211 million by 2032, rising at a market growth of 19.3% CAGR during the forecast period (2026-2032).

Closed automated cell processing systems are instruments that use functionally closed or physically isolated workflows, automated hardware, single-use tubing sets or cartridges, software control, and process monitoring modules to perform cell separation, washing and concentration, activation, transduction, culture expansion, harvest, filling, or combined manufacturing steps. They are mainly used for cell therapy, gene-modified cells, stem cells, and immune cell manufacturing. Their value comes from reducing contamination risk and operator variability, improving batch consistency, data integrity, GMP compatibility, and process transfer efficiency. Products are typically sold as a combination of capital equipment, dedicated single-use consumables, software, and process support services. The blended gross margin is approximately 55%.

As cell and gene therapies move from clinical research to commercial supply, manufacturing requires stronger sterility assurance, batch consistency, and flexible capacity. Autologous therapies involve small, patient-specific batches with high variability, and manual open or semi-open operations create dependence on skilled operators, process errors, and cross-contamination risk. Closed automated systems are therefore becoming key equipment for CAR-T, TCR-T, NK cell, stem cell manufacturing, and cell banking workflows.

Product formats are evolving from standalone washing, concentration, and selection instruments toward modular connected systems and end-to-end integrated platforms. Leading suppliers are building customer lock-in through single-use consumables,

process software, electronic batch records, in-process monitoring, and process development services. Purchasing decisions increasingly focus not only on equipment price, but also on validated process packages, consumable supply stability, scalability, open interfaces, and regulatory documentation.

Demand is led by commercial cell therapy capacity in North America and Europe, while Asia-Pacific is growing quickly through local clinical translation, hospital-based production models, and import substitution. Opportunities are concentrated in systems that reduce cleanroom footprint, lower manual handling, and support multi-product parallel manufacturing, but long validation cycles, high switching costs, consumable lock-in, and process compatibility gaps still affect adoption by new entrants.

This report studies the global Closed Automated Cell Processing Systems production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for Closed Automated Cell Processing 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 Closed Automated Cell Processing Systems that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global Closed Automated Cell Processing Systems total production and demand, 2021-2032, (Units)

Global Closed Automated Cell Processing Systems total production value, 2021-2032, (USD Million)

Global Closed Automated Cell Processing Systems production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (Units), (based on production site)

Global Closed Automated Cell Processing Systems consumption by region & country, CAGR, 2021-2032 & (Units)

U.S. VS China: Closed Automated Cell Processing Systems domestic production, consumption, key domestic manufacturers and share

Global Closed Automated Cell Processing Systems production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (Units)

Global Closed Automated Cell Processing Systems production by Type, production, value, CAGR, 2021-2032, (USD Million) & (Units)

Global Closed Automated Cell Processing Systems production by Application, production, value, CAGR, 2021-2032, (USD Million) & (Units)

This report profiles key players in the global Closed Automated Cell Processing 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 Miltenyi Biotec, Cytiva, Thermo Fisher Scientific, Lonza, Fresenius Kabi, Terumo BCT, Cellares, Ori Biotech, Adva Biotechnology, Applied Cells, 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 Closed Automated Cell Processing Systems market

Detailed Segmentation:

Each section contains quantitative market data including market by value (US\$ Millions), volume (production, consumption) & (Units) 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 Closed Automated Cell Processing Systems Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Closed Automated Cell Processing Systems Market, Segmentation by Type:

Cell Washing and Concentration Systems

Cell Separation and Selection Systems

Cell Culture and Expansion Systems

End-to-End Cell Manufacturing Systems

Integrated Processing Isolator Systems

Global Closed Automated Cell Processing Systems Market, Segmentation by Workflow Architecture:

Single-Function Closed Systems

Multi-Step Modular Systems

All-in-One Integrated Systems

Robotic Scale-Out Platforms

Global Closed Automated Cell Processing Systems Market, Segmentation by Processing Technology:

Counterflow Centrifugation Systems

Spinning Membrane Filtration Systems

Magnetic Separation Systems

Hollow-Fiber Perfusion Systems

Closed Bioreactor Cartridge Systems

Global Closed Automated Cell Processing Systems Market, Segmentation by Manufacturing Scale:

Research and Process Development Scale

Clinical Batch Scale

Commercial Scale-Out

Point-of-Care Manufacturing

Global Closed Automated Cell Processing Systems Market, Segmentation by Application:

Autologous Cell Therapy Manufacturing

Allogeneic Cell Therapy Manufacturing

Stem Cell and Regenerative Medicine

Cell Banking and Process Development

Hospital and Point-of-Care Cell Processing

CDMO and Commercial Manufacturing

Companies Profiled:

Miltenyi Biotec

Cytiva

Thermo Fisher Scientific

Lonza

Fresenius Kabi

Terumo BCT

Cellares

Ori Biotech

Adva Biotechnology

Applied Cells

EurekaBio

Sino-Biocan

Cytoniche Biotech

Key Questions Answered:

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

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