

Global Closed Automated Cell Processing Systems Market 2026 by Manufacturers, Regions, Type and Application, Forecast to 2032

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Abstracts

According to our (Global Info Research) latest study, the global Closed Automated Cell Processing Systems market size was valued at US\$ 1790 million in 2025 and is forecast to a readjusted size of US\$ 6211 million by 2032 with a CAGR of 19.3% during review period.

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 is a detailed and comprehensive analysis for global Closed Automated Cell Processing Systems market. Both quantitative and qualitative analyses are presented by manufacturers, by region & country, by Type and by Application. As the market is constantly changing, this report explores the competition, supply and demand trends, as well as key factors that contribute to its changing demands across many markets. Company profiles and product examples of selected competitors, along with market share estimates of some of the selected leaders for the year 2025, are provided.

Key Features:

Global Closed Automated Cell Processing Systems market size and forecasts, in consumption value (\$ Million), sales quantity (Units), and average selling prices (US\$/Unit), 2021-2032

Global Closed Automated Cell Processing Systems market size and forecasts by region and country, in consumption value (\$ Million), sales quantity (Units), and average selling prices (US\$/Unit), 2021-2032

Global Closed Automated Cell Processing Systems market size and forecasts, by Type and by Application, in consumption value (\$ Million), sales quantity (Units), and average selling prices (US\$/Unit), 2021-2032

Global Closed Automated Cell Processing Systems market shares of main players, shipments in revenue (\$ Million), sales quantity (Units), and ASP (US\$/Unit), 2021-2026

The Primary Objectives in This Report Are:

To determine the size of the total market opportunity of global and key countries

To assess the growth potential for Closed Automated Cell Processing Systems

To forecast future growth in each product and end-use market

To assess competitive factors affecting the marketplace

This report profiles key players in the global Closed Automated Cell Processing Systems market based on the following parameters - company overview, sales quantity, revenue, 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.

Market Segmentation

Closed Automated Cell Processing Systems market is split by Type and by Application. For the period 2021-2032, the growth among segments provides accurate calculations and forecasts for consumption value by Type, and by Application in terms of volume and value. This analysis can help you expand your business by targeting qualified niche markets.

Market segment 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

Market segment by Workflow Architecture

Single-Function Closed Systems

Multi-Step Modular Systems

All-in-One Integrated Systems

Robotic Scale-Out Platforms

Market segment by Processing Technology

Counterflow Centrifugation Systems

Spinning Membrane Filtration Systems

Magnetic Separation Systems

Hollow-Fiber Perfusion Systems

Closed Bioreactor Cartridge Systems

Market segment by Manufacturing Scale

Research and Process Development Scale

Clinical Batch Scale

Commercial Scale-Out

Point-of-Care Manufacturing

Market segment 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

Major players covered

Miltenyi Biotec

Cytiva

Thermo Fisher Scientific

Lonza

Fresenius Kabi

Terumo BCT

Cellares

Ori Biotech

Adva Biotechnology

Applied Cells

EurekaBio

Sino-Biocan

Cytoniche Biotech

Market segment by region, regional analysis covers

North America (United States, Canada, and Mexico)

Europe (Germany, France, United Kingdom, Russia, Italy, and Rest of Europe)

Asia-Pacific (China, Japan, Korea, India, Southeast Asia, and Australia)

South America (Brazil, Argentina, Colombia, and Rest of South America)

Middle East & Africa (Saudi Arabia, UAE, Egypt, South Africa, and Rest of Middle East & Africa)

The content of the study subjects, includes a total of 15 chapters:

Chapter 1, to describe Closed Automated Cell Processing Systems product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of Closed Automated Cell Processing Systems, with price, sales quantity, revenue, and global market share of Closed Automated Cell Processing Systems from 2021 to 2026.

Chapter 3, the Closed Automated Cell Processing Systems competitive situation, sales quantity, revenue, and global market share of top manufacturers are analyzed emphatically by landscape contrast.

Chapter 4, the Closed Automated Cell Processing Systems breakdown data are shown at the regional level, to show the sales quantity, consumption value, and growth by regions, from 2021 to 2032.

Chapter 5 and 6, to segment the sales by Type and by Application, with sales market share and growth rate by Type, by Application, from 2021 to 2032.

Chapter 7, 8, 9, 10 and 11, to break the sales data at the country level, with sales quantity, consumption value, and market share for key countries in the world, from 2021

to 2026.and Closed Automated Cell Processing Systems market forecast, by regions, by Type, and by Application, with sales and revenue, from 2027 to 2032.

Chapter 12, market dynamics, drivers, restraints, trends, and Porters Five Forces analysis.

Chapter 13, the key raw materials and key suppliers, and industry chain of Closed Automated Cell Processing Systems.

Chapter 14 and 15, to describe Closed Automated Cell Processing Systems sales channel, distributors, customers, research findings and conclusion.

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