

Global Cell Expansion Supporting Equipment Market Growth 2026-2032

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Abstracts

The global Cell Expansion Supporting Equipment market size is predicted to grow from US\$ 2133 million in 2025 to US\$ 4779 million in 2032; it is expected to grow at a CAGR of 12.3% from 2026 to 2032.

Cell Expansion Supporting Equipment refers to specialized equipment systems used to provide a controlled in vitro or ex vivo environment for adherent culture, suspension culture, perfusion culture, and scale-up of cells. Its core function is to maintain cell viability, proliferation rate, phenotype consistency, and batch-to-batch reproducibility during process scale-up. In physical form, such equipment typically consists of a main control unit, a culture chamber or bioreactor, drive and mixing modules, temperature-control modules, gas supply and exchange modules, fluid paths with pumps and valves, online sensors, and data acquisition/software systems; in closed platforms, sterile connection, sampling, feeding, perfusion, and waste-management components are often integrated as well. By mainstream configuration, it includes rocking systems, stirred bioreactor systems, fixed-bed systems, hollow-fiber systems, gas-exchange culture systems, and integrated automated closed expansion platforms. Its operating principle is to create a suitable microenvironment for different cell types through controlled heat and mass transfer together with feedback control of temperature, pH, dissolved oxygen, carbon dioxide, shear stress, nutrient supply, and metabolite removal, thereby enabling cell expansion from research scale to pilot scale and further to GMP manufacturing scale.

Growth opportunities for Cell Expansion Supporting Equipment are primarily driven by the commercialization of cell and gene therapies, higher process standardization requirements, and the ongoing migration from open manual operations to closed automated manufacturing. As the number of approved cell therapies increases and

development pipelines continue to expand, both clinical-stage and commercial-stage manufacturing demand better consistency, lower contamination risk, more complete electronic records, and stronger batch comparability. This is steadily increasing the value of automated expansion platforms, single-use bioreactors, online monitoring tools, and perfusion-control equipment. From the manufacturing perspective, equipment is no longer merely a culture vessel; it has become critical infrastructure directly linked to process development, regulatory compliance, GMP scale-up, and cost control. Suppliers capable of offering closed, modular, digitalized, and verifiable process packages therefore have a stronger chance of being designed into projects.

The main risks of the market are concentrated in process uncertainty, commercialization success rates, validation costs, and supply-chain lock-in. Different cell types, donor sources, and culture routes respond very differently to shear, oxygen transfer, adherent carriers, perfusion strategies, and harvesting methods, which means scale-up is not a simple linear extension of bench-scale parameters. For users, equipment purchase is only one part of total investment; the real barriers lie in process development, validation, consumable systems, software compliance, facility fit, and post-approval change control. For suppliers, a platform that is too closed or too dependent on proprietary consumables may also face customer resistance on cost and flexibility. In addition, although the CGT field remains highly attractive, not every indication will scale commercially at the same pace, and equipment demand will continue to be shaped by financing conditions, clinical outcomes, reimbursement, and capacity utilization.

Downstream demand is moving from "being able to expand cells" toward "being able to scale reliably, manufacture compliantly, and replicate processes across multiple sites." The strongest current demand comes from cell therapy and advanced therapy manufacturing, upstream biopharmaceutical process development, CDMO/IDMO platforms, and large hospitals or research institutes with translational capabilities. In terms of demand structure, closed systems, automated sampling and feeding, digital batch records, compact parallel development platforms, single-use fluid paths, and low-labor solutions are receiving more attention. From a technical-route perspective, suspension-cell systems remain more favorable for large-scale manufacturing, while adherent-cell systems continue to drive upgrades in fixed-bed, microcarrier, and dedicated carrier-based reactors. Regionally, North America and Europe remain the main centers for high-end platforms and commercial demand, while China, Japan, Singapore, and Israel are increasingly active in localized production, engineering-based cost reduction, and new platform adoption.

LP Information, Inc. (LPI) ' newest research report, the "Cell Expansion Supporting

Equipment Industry Forecast? looks at past sales and reviews total world Cell Expansion Supporting Equipment sales in 2025, providing a comprehensive analysis by region and market sector of projected Cell Expansion Supporting Equipment sales for 2026 through 2032. With Cell Expansion Supporting Equipment sales broken down by region, market sector and sub-sector, this report provides a detailed analysis in US\$ millions of the world Cell Expansion Supporting Equipment industry.

This Insight Report provides a comprehensive analysis of the global Cell Expansion Supporting Equipment landscape and highlights key trends related to product segmentation, company formation, revenue, and market share, latest development, and M&A activity. This report also analyzes the strategies of leading global companies with a focus on Cell Expansion Supporting Equipment portfolios and capabilities, market entry strategies, market positions, and geographic footprints, to better understand these firms' unique position in an accelerating global Cell Expansion Supporting Equipment market.

This Insight Report evaluates the key market trends, drivers, and affecting factors shaping the global outlook for Cell Expansion Supporting Equipment and breaks down the forecast by Type, by Application, geography, and market size to highlight emerging pockets of opportunity. With a transparent methodology based on hundreds of bottom-up qualitative and quantitative market inputs, this study forecast offers a highly nuanced view of the current state and future trajectory in the global Cell Expansion Supporting Equipment.

This report presents a comprehensive overview, market shares, and growth opportunities of Cell Expansion Supporting Equipment market by product type, application, key manufacturers and key regions and countries.

Segmentation by Type:

Flow cytometer

Cell counters

Centrifuges

Others

Segmentation by Process Architecture:

- Rocking-motion bioreactor systems
- Stirred-tank bioreactor systems
- Fixed-bed bioreactor systems
- Hollow-fiber bioreactor systems
- Orbital-shaken bioreactor systems
- Gas-permeable static culture systems
- Others

Segmentation by Product Contact Format:

- Vessel-based systems
- Bag-based systems
- Cartridge-based systems
- Cassette-based systems
- Fiber-module-based systems
- Plate or stack-based systems
- Others

Segmentation by Single-Use Level:

- Reusable stainless-steel systems
- Hybrid systems

Single-use systems

Segmentation by Application:

Regenerative Medicine and Stem Cell Research

Cancer and Cell-based Research

Others

This report also splits the market by region:

Americas

United States

Canada

Mexico

Brazil

APAC

China

Japan

Korea

Southeast Asia

India

Australia

Europe

Germany

France

UK

Italy

Russia

Middle East & Africa

Egypt

South Africa

Israel

Turkey

GCC Countries

The below companies that are profiled have been selected based on inputs gathered from primary experts and analysing the company's coverage, product portfolio, its market penetration.

Danaher (Cytiva)

Thermo Fisher Scientific

Merck

Sartorius

Lonza

Corning

Terumo Blood and Cell Technologies

Miltenyi Biotec

Getinge

Eppendorf

Donaldson (Solaris Biotech)

GEA

ABEC

PHC

Esco Lifesciences Group

Univercells Technologies

Ori Biotech

Cellares

PBS Biotech

Wilson Wolf

Adva Biotechnology

ABLE Biott

Kuhner

Distek

ZETA

INFORS HT

Tofflon

T&J Bioengineering (Shanghai)

Shanghai Zhichu Instrument

Applitech Biological Technology

Key Questions Addressed in this Report

What is the 10-year outlook for the global Cell Expansion Supporting Equipment market?

What factors are driving Cell Expansion Supporting Equipment market growth, globally and by region?

Which technologies are poised for the fastest growth by market and region?

How do Cell Expansion Supporting Equipment market opportunities vary by end market size?

How does Cell Expansion Supporting Equipment break out by Type, by Application?

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