

Global Production-grade Biopharmaceutical Equipment Supply, Demand and Key Producers, 2026-2032

<https://marketpublishers.com/r/G975ECC0F3EAEN.html>

Date: May 2026

Pages: 219

Price: US\$ 4,480.00 (Single User License)

ID: G975ECC0F3EAEN

Abstracts

The global Production-grade Biopharmaceutical Equipment market size is expected to reach \$ 22035 million by 2032, rising at a market growth of 6.4% CAGR during the forecast period (2026-2032).

In the biopharmaceutical field, the equipment configuration is most complete and the process requirements are most stringent during the large-scale production stage. Manufacturing activities in this industry typically revolve around 'cell or microbial amplification?product expression?harvesting and clarification?purification and refining?concentration and fluid exchange?aseptic assurance and formulation,' with production organization exhibiting significant high cleanliness, high consistency, and strong validation attributes. From the perspective of equipment placement, bioreactors, single-use bioreactors, fermenters, and storage systems primarily undertake cell culture or virus amplification tasks in the production of antibody drugs, recombinant protein drugs, and vaccine bulk solutions; depth filtration, centrifuges, TFF systems, chromatography systems, and sterile filtration constitute the main body of downstream purification, used for cell removal, target protein capture, virus removal, concentration, and buffer replacement; and solution preparation systems, online solution preparation, and CIP cleaning systems serve the preparation of culture media, buffers, and formulation solutions, and undertake batch-to-batch switching and validation cleaning tasks. For cell therapy products such as CAR-T, although the overall production volume is smaller than that of monoclonal antibodies, they rely more heavily on closed fluid pathways, aseptic connections, and automated cell processing platforms. For small nucleic acid drugs, the purification and medium-change processes are more sensitive to membrane systems and chromatography platforms. Overall, in the biopharmaceutical field, equipment used in large-scale production and purification stages not only performs

manufacturing functions but also serves as the underlying support for drug quality consistency, regulatory compliance, and commercial scale-up.

Changes in the policy environment often create new growth opportunities for industries. Currently, major global economies are placing biomanufacturing on their strategic agendas, and a series of favorable policies are significantly expanding the market space for biomanufacturing equipment. For example, after the outbreak of the pandemic, countries realized the importance of domestic biopharmaceutical production capacity, and governments led or supported the construction of vaccine and biopharmaceutical factories, directly driving large-scale procurement of related equipment. The United States, through legislation such as the National Biomanufacturing Initiative and the CHIPS and Science Act, has invested billions of dollars to strengthen its domestic biotechnology supply chain, not only encouraging companies to increase R&D, but also using some funds directly to purchase key equipment such as advanced bioreactors and aseptic filling equipment. China has introduced industrial policies to support the localization of high-end biopharmaceutical equipment, providing preferential treatment in terms of funding, land use, and taxation, enabling domestic equipment manufacturers to accelerate their growth under the favorable policy environment. For equipment companies, actively positioning themselves in line with these policy directions can fully share in the policy dividends.

The continued high-speed growth of the pharmaceutical sector is paramount: In recent years, the proportion of biopharmaceuticals in the global pharmaceutical market has been continuously increasing, and multiple new therapy pipelines have entered the commercialization stage, generating a large demand for new production capacity. The global market for biopharmaceutical process equipment and consumables is experiencing rapid growth. This rapid growth directly reflects the strong demand for equipment driven by the expansion of downstream biopharmaceutical production capacity. In the coming years, a large number of new antibody drug, vaccine, and gene therapy production lines will be built and put into operation, leading to a steady increase in orders for various fermenters, cell culture systems, and purification equipment. For equipment suppliers, this is the most crucial and sustainable market driver.

This report studies the global Production-grade Biopharmaceutical Equipment demand, key companies, and key regions.

This report is a detailed and comprehensive analysis of the world market for Production-grade Biopharmaceutical Equipment, 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 Production-grade Biopharmaceutical Equipment that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global Production-grade Biopharmaceutical Equipment total market, 2021-2032, (USD Million)

Global Production-grade Biopharmaceutical Equipment total market by region & country, CAGR, 2021-2032, (USD Million)

U.S. VS China: Production-grade Biopharmaceutical Equipment total market, key domestic companies, and share, (USD Million)

Global Production-grade Biopharmaceutical Equipment revenue by player, revenue and market share 2021-2026, (USD Million)

Global Production-grade Biopharmaceutical Equipment total market by Type, CAGR, 2021-2032, (USD Million)

Global Production-grade Biopharmaceutical Equipment total market by Application, CAGR, 2021-2032, (USD Million)

This report profiles major players in the global Production-grade Biopharmaceutical Equipment market based on the following parameters - company overview, revenue, gross margin, product portfolio, geographical presence, and key developments. Key companies covered as a part of this study include Danaher, Sartorius, Merck KGaA, GEA, ALFA LAVAL, Morimatsu Industry, Sulzer Ltd, Tofflon, SPX Flow, Lisure Science, 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 Production-grade Biopharmaceutical Equipment market

Detailed Segmentation:

Each section contains quantitative market data including market by value (US\$ Millions), by player, by regions, 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 Production-grade Biopharmaceutical Equipment Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Production-grade Biopharmaceutical Equipment Market, Segmentation by Type:

Raw Material Handling and Preparation Equipment

Material Conveying Equipment

Air Supply Engineering Equipment

Bioreactors and Fermenters

Separation and Purification Equipment

Evaporation and Crystallization Equipment

Drying Equipment

Cleaning Equipment

Others

Global Production-grade Biopharmaceutical Equipment Market, Segmentation by

Process:

Based on Single-use Process

Based on Reusable Process

Global Production-grade Biopharmaceutical Equipment Market, Segmentation by Bio-fermentation Capacity:

?2000L

2000-5000L

?5000L

Global Production-grade Biopharmaceutical Equipment Market, Segmentation by Application:

Macromolecular Biopharmaceuticals

Small Molecule Chemical Drugs

Companies Profiled:

Danaher

Sartorius

Merck KGaA

GEA

ALFA LAVAL

Morimatsu Industry

Sulzer Ltd

Tofflon

SPX Flow

Lisure Science

AUSTAR Group

Truiking Technology

Pierre Guerin

EastBio

Krones AG

ABEC

Flottweg SE

Tomoe

Jiangsu Zhengchang Group

DCI, Inc.

Greatwall Mixers

EKATO

Jiangsu Hanbon

Cotter Brothers Corporation

Holloway America

BHS-Sonthofen GmbH

Actini Group

Shanghai Triowin Intelligent Machinery

YMC CO., LTD.

Ohkawara Kakohki Co., Ltd.

Suntar Environmental Technology

Buss-SMS-Canzler GmbH

TECNIC

Jiangsu Jiuwu Hi-Tech

Hengfengtai

Beijing ChuangXinTongHeng

BIIC Bianchi SpA

Alsys Group

Solaris Biotech

Key Questions Answered

1. How big is the global Production-grade Biopharmaceutical Equipment market?
2. What is the demand of the global Production-grade Biopharmaceutical Equipment market?
3. What is the year over year growth of the global Production-grade Biopharmaceutical Equipment market?
4. What is the total value of the global Production-grade Biopharmaceutical Equipment market?
5. Who are the Major Players in the global Production-grade Biopharmaceutical Equipment market?
6. What are the growth factors driving the market demand?

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