

# Global Bio-fermentation Engineering Equipment Market 2026 by Company, Regions, Type and Application, Forecast to 2032

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## Abstracts

According to our (Global Info Research) latest study, the global Bio-fermentation Engineering Equipment market size was valued at US\$ 29781 million in 2025 and is forecast to a readjusted size of US\$ 44262 million by 2032 with a CAGR of 5.9% during review period.

Bio-fermentation engineering equipment refers to the core process equipment and supporting facilities necessary for industrial-grade biomanufacturing systems to achieve stable commercial output of target products. This stage is no longer limited to laboratory or pilot-scale experiments, but is geared towards industrial production systems with continuous operation, high batch consistency, and regulatory compliance requirements. It covers the entire process from raw material processing and fermentation/reaction process control to product separation, purification, concentration, drying, storage, and transportation, and is the key physical foundation supporting the transformation of biomanufacturing achievements into industrial products.

The global bio-fermentation engineering equipment market encompasses a wide variety of equipment types, ranging from fermentation reactions to separation and purification. This includes upstream production stages such as bioreactors, fermenters, and raw material handling and batching systems; midstream stages such as material conveying and air supply engineering systems; and downstream purification stages such as centrifuges, chromatography (chromatographic) separation equipment, filtration systems, drying equipment, evaporation and crystallization equipment, and sterilization equipment. This high diversity of equipment types signifies a broad industry coverage, with each type of equipment targeting specific process stages and possessing specialized functions. This dispersion reflects both the complexity of biomanufacturing

processes and the distinct performance requirements of each stage; it also means that no single equipment category can dominate the entire market, with the total industry size being divided among multiple sub-product lines. Each sub-market often develops its own technological system and supply chain network, fostering specialized companies and teams.

The global biomanufacturing equipment industry exhibits a supplier landscape characterized by 'concentration at the top and dispersion at the bottom.' On the one hand, a few leading multinational companies dominate the market with their comprehensive product lines and advanced technologies, collectively controlling a significant proportion of the global market share. Industry data estimates suggest that the top suppliers account for approximately 30-50% of the global market sales, reflecting a moderate to high market concentration. Most of these leading companies are from Europe and the United States, and through years of technological accumulation and multi-field expansion, they have built high barriers to entry. They often build a complete product matrix through mergers and acquisitions, providing complete equipment and consumable solutions from upstream reactions to downstream purification, possessing strong brand influence and a large customer base in the high-end market. The scale effect and R&D investment of these leading players also enable them to continuously lead the industry's technological direction. For example, in the critical field of filtration and separation consumables, due to extremely high technological barriers, only a few international manufacturers have long held a dominant position, and their product performance is widely recognized, becoming the standard choice in most production processes. In recent years, these leading companies have further expanded their strength through strategic mergers and acquisitions, exacerbating the trend of the strong getting stronger.

On the other hand, a large number of small and medium-sized specialized manufacturers are flourishing in niche areas, forming the long tail of the supplier landscape. Due to the wide variety and technological scope of biomanufacturing equipment, some companies focusing on specific aspects are able to survive and develop by leveraging their niche technological advantages. For example, some manufacturers specialize in fermenters and related engineering, while others focus on chromatography purification systems or filter membrane consumables, providing customized solutions. The existence of these specialized manufacturers enhances the overall technological diversity of the industry and provides downstream customers with more diverse choices. At the regional level, local suppliers in emerging market countries have also been rising in recent years, but their overall scale and international competitiveness still lag significantly behind leading companies. Taking China as an

example, local companies have only recently achieved product breakthroughs from scratch. Although they have made progress in some low-to-mid-range equipment, they still lag behind international leaders in high-end technology and brand recognition. Overall, the supplier landscape presents a situation where giants coexist with numerous newcomers: a few leading companies occupy key market shares and dominate technological trends, while numerous small and medium-sized enterprises do their best in their respective fields, forming a competitive ecosystem that is both concentrated and diverse.

This report is a detailed and comprehensive analysis for global Bio-fermentation Engineering Equipment market. Both quantitative and qualitative analyses are presented by company, 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 Bio-fermentation Engineering Equipment market size and forecasts, in consumption value (\$ Million), 2021-2032

Global Bio-fermentation Engineering Equipment market size and forecasts by region and country, in consumption value (\$ Million), 2021-2032

Global Bio-fermentation Engineering Equipment market size and forecasts, by Type and by Application, in consumption value (\$ Million), 2021-2032

Global Bio-fermentation Engineering Equipment market shares of main players, in revenue (\$ Million), 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 Bio-fermentation Engineering Equipment

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 Bio-fermentation Engineering 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, Andritz AG, Tofflon, B?hler AG, etc.

This report also provides key insights about market drivers, restraints, opportunities, new product launches or approvals.

### Market segmentation

Bio-fermentation Engineering Equipment 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. This analysis can help you expand your business by targeting qualified niche markets.

### Market segment 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

## Market segment by Process

Based on Single-use Process

Based on Reusable Process

## Market segment by Bioreactor Scale

?2000L

2000-5000L

?5000L

## Market segment by Application

Biopharmaceuticals

Food and Nutrition

Bio-agriculture

Consumer and Personal Care

Bioenergy

Others

## Market segment by players, this report covers

Danaher

Sartorius

Merck KGaA

GEA

ALFA LAVAL

Morimatsu Industry

Sulzer Ltd

Andritz AG

Tofflon

Bühler AG

SPX Flow

Lisore Science

AUSTAR Group

TruKing 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.

Sinomach General Machinery

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

Jiangsu Liangyou Zhengda

Market segment by regions, regional analysis covers

North America (United States, Canada and Mexico)

Europe (Germany, France, UK, Russia, Italy and Rest of Europe)

Asia-Pacific (China, Japan, South Korea, India, Southeast Asia and Rest of Asia-Pacific)

South America (Brazil, Rest of South America)

Middle East & Africa (Turkey, Saudi Arabia, UAE, Rest of Middle East & Africa)

**The content of the study subjects, includes a total of 13 chapters:**

Chapter 1, to describe Bio-fermentation Engineering Equipment product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top players of Bio-fermentation Engineering Equipment, with revenue, gross margin, and global market share of Bio-fermentation Engineering Equipment from 2021 to 2026.

Chapter 3, the Bio-fermentation Engineering Equipment competitive situation, revenue, and global market share of top players are analyzed emphatically by landscape contrast.

Chapter 4 and 5, to segment the market size by Type and by Application, with consumption value and growth rate by Type, by Application, from 2021 to 2032.

Chapter 6, 7, 8, 9, and 10, to break the market size data at the country level, with revenue and market share for key countries in the world, from 2021 to 2026. and Bio-fermentation Engineering Equipment market forecast, by regions, by Type and by Application, with consumption value, from 2027 to 2032.

Chapter 11, market dynamics, drivers, restraints, trends, Porters Five Forces analysis.

Chapter 12, the key raw materials and key suppliers, and industry chain of Bio-fermentation Engineering Equipment.

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