

Blow Fill Seal Equipment Market Forecasts to 2032 – Global Analysis By Product (Bottles, Ampoules, Vials and Prefilled Syringes & Injectables), Capacity (Upto 5,000 Containers/Hr, 5,000-10,000 Containers/Hr and Above 10,000 Containers/Hr), Filling Volume, Category, Number of Cavities, Number of Mold, Decorations of the Containers, Shape, End User and By Geography

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Abstracts

According to Statistics MRC, the Global Blow Fill Seal Equipment Market is accounted for \$2.43 billion in 2025 and is expected to reach \$3.50 billion by 2032 growing at a CAGR of 5.3% during the forecast period. Blow-fill-seal (BFS) equipment is an advanced aseptic packaging technology widely used in the pharmaceutical, healthcare, and food industries for the sterile packaging of liquids. In this automated process, plastic containers are continuously formed from polymer resin, immediately filled, and sealed in a sterile environment—all in a single machine cycle. By drastically lowering the need for human intervention, the technology lowers the possibility of contamination and improves product safety. Packaging unit-dose drugs, eye solutions, respiratory treatments, and other sterile liquid products is a special application for BFS equipment. Moreover, it is a useful tool in contemporary sterile manufacturing operations because of its capacity to expedite production while maintaining high standards of precision and hygiene.

According to the Parenteral Drug Association (PDA), Blow-Fill-Seal (BFS) technology is recognized as an advanced aseptic process that offers significant advantages in sterile pharmaceutical manufacturing. In their Technical Report No. 77, the PDA provides comprehensive guidance on the operation of BFS systems, emphasizing their role in

enhancing product safety by minimizing human intervention during the filling and sealing processes.

Market Dynamics:

Driver:

Growing pharmaceutical need for aseptic packaging

The pharmaceutical industry is constantly under pressure to uphold the strictest safety and hygienic regulations, especially with regard to injectable and inhalable drugs. By integrating container formation, filling, and sealing into a single, continuous, automated cycle, BFS equipment guarantees a sterile fill-finish procedure. Additionally, this greatly lowers the chance of microbial contamination, making it the perfect choice for packaging sterile liquids. As more vaccines, biologics, and specialty medications are produced, there is a greater need for aseptic packaging, especially in developing nations where healthcare infrastructure is developing quickly.

Restraint:

High initial outlay of funds

The high initial cost of buying and setting up BFS equipment is one of the main factors preventing its widespread use. Highly specialized BFS machines combine filling, sealing, and molding processes into one automated device. For small and medium-sized manufacturers, particularly those in emerging economies, this complexity raises the initial investment, which can be a major burden. Furthermore, companies must also spend money on cleanroom settings, infrastructure upgrades, and compliance certifications in addition to the machinery itself, which raises the total cost of ownership even more.

Opportunity:

Growth in the production of specialty drugs and biologics

Advanced packaging technologies that guarantee sterility and product stability are becoming more and more necessary as the pharmaceutical industry moves toward biologics, biosimilars, and personalized medicine. Aseptic packaging of delicate biologics, including vaccines, monoclonal antibodies, and cell-based treatments, is a

good fit for BFS systems. Moreover, manufacturers of BFS equipment have a significant opportunity to create customized solutions for high-value, small-batch production as a result of the global increase in biologic drug approvals, particularly for niche therapies that demand unit-dose formats and low contamination risk.

Threat:

Increasing rivalry from other aseptic packaging technologies

Although BFS is a well-established aseptic technology, it is up against fierce competition from other cutting-edge fill-finish systems like form-fill-seal (FFS) technologies, vial filling lines, and prefilled syringes. These substitutes frequently provide more flexibility, particularly for businesses with a range of packaging requirements. Because of their ease of use and benefits for patient safety, prefilled syringes in particular are becoming more and more popular in the injectable drug and biologics markets. Additionally, the market share of BFS may decline if manufacturers start choosing these substitutes due to factors like price, format, or usability.

Covid-19 Impact:

The COVID-19 pandemic affected the blow-fill-seal (BFS) equipment market in a number of ways. The need for aseptic packaging solutions was greatly increased by the crisis, particularly for vaccines, respiratory medications, and single-dose drugs. This underscored the importance of BFS technology in maintaining sterility and reducing contamination. Short-term investments in BFS systems were fuelled by a number of pharmaceutical manufacturers increasing their BFS-based fill-finish operations to meet urgent healthcare needs. However, delays in capital expenditure in non-essential sectors, limitations on industrial operations, and disruptions in global supply chains temporarily hampered project timelines and the installation of new equipment.

The bottles segment is expected to be the largest during the forecast period

The bottles segment is expected to account for the largest market share during the forecast period. The production of sterile plastic bottles in a range of sizes for the packaging of liquid formulations, including cough syrups, rehydration solutions, and eye medications, is a highly suitable application for BFS technology. The bottle format is perfect for high-volume production because it provides benefits like tamper-evidence, longer shelf life, and a lower risk of contamination. Additionally, the bottle segment's dominance in the BFS market is still supported by the rising demand for unit-dose

packaging and the move toward affordable, preservative-free alternatives.

The ink-jet printed segment is expected to have the highest CAGR during the forecast period

Over the forecast period, the ink-jet printed segment is predicted to witness the highest growth rate, driven by the growing need for high-speed, flexible, and affordable labeling solutions. With its many benefits, such as variable data printing, on-demand customization, and short turnaround times, ink-jet printing is perfect for pharmaceutical applications that call for serialized packaging and short production runs. Manufacturers are using ink-jet printing to ensure compliance and boost operational efficiency as a result of increased regulatory emphasis on product traceability, batch coding, and anti-counterfeiting measures. Furthermore, it is more appealing to a wider range of end-use sectors due to its compatibility with various container shapes and materials.

Region with largest share:

During the forecast period, the North America region is expected to hold the largest market share because of its sophisticated pharmaceutical production facilities, strict legal requirements, and high demand for sterile, impenetrable packaging. The widespread adoption of BFS technology is fueled by the region's well-established healthcare system, high prevalence of chronic diseases, and growing preference for single-dose medications. In order to comply with FDA and USP regulations for aseptic processing, major pharmaceutical companies and contract manufacturing organizations (CMOs) in the United States and Canada have incorporated BFS systems into their production lines.

Region with highest CAGR:

Over the forecast period, the Asia Pacific region is anticipated to exhibit the highest CAGR, driven by the healthcare and pharmaceutical industries' explosive expansion in developing nations like China, India, and Southeast Asia. Cost-effective, high-volume aseptic packaging solutions are in high demand due to rising healthcare costs, easier access to necessary medications, and an increase in the production of generic drugs. The region's governments are also making significant investments in local pharmaceutical production and healthcare infrastructure, which will facilitate the adoption of BFS. Additionally, pharmaceutical companies are investing in BFS technology due to the growth of contract manufacturing organizations (CMOs), regulatory compliance, and contamination-free drug delivery.

Key players in the market

Some of the key players in Blow Fill Seal Equipment Market include Gerresheimer AG, Adinath International, Robert Bosch GmbH, Serac Group, Syntegon Technology GmbH, Recipharm AB, Marchesini Group S.p.A., Brevetti Angela S.r.l., Gea Group Aktiengesellschaft, Rommelag Kunststoff-Maschinen Vertriebsgesellschaft GmbH, Foshan Coretamp Packaging Machinery Co. Ltd, Unither Pharmaceuticals, Takeda Pharmaceutical Company Limited, GlaxoSmithKline plc and Weiler Engineering, Inc.

Key Developments:

In July 2024, German engineering and electronics group Robert Bosch GmbH has agreed to acquire Johnson Controls International (JCI)'s global heating, ventilation, and air-conditioning (HVAC) business for residential and light commercial buildings in an all-cash deal valued at US\$8.1 billion.

In June 2024, Takeda announced the signing of an option agreement with Ascentage Pharma to enter into an exclusive license agreement for olverembatinib, an oral, potentially best-in-class, third-generation BCR-ABL tyrosine kinase inhibitor (TKI), which is currently in development for chronic myeloid leukemia (CML) and other hematological cancers.

In May 2024, Gerresheimer Glas, a subsidiary of Gerresheimer, has entered into a purchase agreement to acquire Blitz LuxCo, the holding company of Bormioli Pharma. The acquisition is valued at approximately €800m. Bormioli Pharma, with nine production sites across Europe, offers a range of pharmaceutical primary packaging products made from glass and plastic, including closure solutions, accessories, and dispensing systems.

Products Covered:

Bottles

Ampoules

Vials

Prefilled Syringes & Injectable

Capacities Covered:

Upto 5,000 Containers/Hr

5,000-10,000 Containers/Hr

Above 10,000 Containers/Hr

Filling Volumes Covered:

Upto 100 MI

100 MI to 250 MI

250 MI to 1000 MI

More Than 1000 MI

Categories Covered:

Rotating

Cyclic

Number of Cavities Covered:

Up to 5

6 to 10

11 to 20

More Than 20

Number of Molds Covered:

1 Mold

2 Molds

4 Molds

14 Molds

15 Molds

20 Molds

Other Number of Molds

Decorations of the Containers Covered:

Direct Printed

Labelled

Moulded

Ink-Jet Printed

No Decoration on BFS-Container

Shapes Covered:

Cylindrical

Squared

Hexagonal

Irregularly

End Users Covered:

Cosmetics and Personal Care

Pharmaceuticals

Food and Beverages

Chemicals

Other End Users

Regions Covered:

North America

US

Canada

Mexico

Europe

Germany

UK

Italy

France

Spain

Rest of Europe

Asia Pacific

Japan

China

India

Australia

New Zealand

South Korea

Rest of Asia Pacific

South America

Argentina

Brazil

Chile

Rest of South America

Middle East & Africa

Saudi Arabia

UAE

Qatar

South Africa

Rest of Middle East & Africa

What our report offers:

- Market share assessments for the regional and country-level segments
- Strategic recommendations for the new entrants
- Covers Market data for the years 2024, 2025, 2026, 2028, and 2032
- Market Trends (Drivers, Constraints, Opportunities, Threats, Challenges, Investment Opportunities, and recommendations)
- Strategic recommendations in key business segments based on the market estimations
- Competitive landscaping mapping the key common trends
- Company profiling with detailed strategies, financials, and recent developments
- Supply chain trends mapping the latest technological advancements

Free Customization Offerings:

All the customers of this report will be entitled to receive one of the following free customization options:

Company Profiling

Comprehensive profiling of additional market players (up to 3)

SWOT Analysis of key players (up to 3)

Regional Segmentation

Market estimations, Forecasts and CAGR of any prominent country as per the client's interest (Note: Depends on feasibility check)

Competitive Benchmarking

Benchmarking of key players based on product portfolio, geographical presence, and strategic alliances

Contents

1 EXECUTIVE SUMMARY

2 PREFACE

- 2.1 Abstract
- 2.2 Stake Holders
- 2.3 Research Scope
- 2.4 Research Methodology
 - 2.4.1 Data Mining
 - 2.4.2 Data Analysis
 - 2.4.3 Data Validation
 - 2.4.4 Research Approach
- 2.5 Research Sources
 - 2.5.1 Primary Research Sources
 - 2.5.2 Secondary Research Sources
 - 2.5.3 Assumptions

3 MARKET TREND ANALYSIS

- 3.1 Introduction
- 3.2 Drivers
- 3.3 Restraints
- 3.4 Opportunities
- 3.5 Threats
- 3.6 Product Analysis
- 3.7 End User Analysis
- 3.8 Emerging Markets
- 3.9 Impact of Covid-19

4 PORTERS FIVE FORCE ANALYSIS

- 4.1 Bargaining power of suppliers
- 4.2 Bargaining power of buyers
- 4.3 Threat of substitutes
- 4.4 Threat of new entrants
- 4.5 Competitive rivalry

5 GLOBAL BLOW FILL SEAL EQUIPMENT MARKET, BY PRODUCT

- 5.1 Introduction
- 5.2 Bottles
- 5.3 Ampoules
- 5.4 Vials
- 5.5 Prefilled Syringes & Injectable

6 GLOBAL BLOW FILL SEAL EQUIPMENT MARKET, BY CAPACITY

- 6.1 Introduction
- 6.2 Upto 5,000 Containers/Hr
- 6.3 5,000-10,000 Containers/Hr
- 6.4 Above 10,000 Containers/Hr

7 GLOBAL BLOW FILL SEAL EQUIPMENT MARKET, BY FILLING VOLUME

- 7.1 Introduction
- 7.2 Upto 100 MI
- 7.3 100 MI to 250 MI
- 7.4 250 MI to 1000 MI
- 7.5 More Than 1000 MI

8 GLOBAL BLOW FILL SEAL EQUIPMENT MARKET, BY CATEGORY

- 8.1 Introduction
- 8.2 Rotating
- 8.3 Cyclic

9 GLOBAL BLOW FILL SEAL EQUIPMENT MARKET, BY NUMBER OF CAVITIES

- 9.1 Introduction
- 9.2 Up to 5
- 9.3 6 to 10
- 9.4 11 to 20
- 9.5 More Than 20

10 GLOBAL BLOW FILL SEAL EQUIPMENT MARKET, BY NUMBER OF MOLD

- 10.1 Introduction
- 10.2 1 Mold
- 10.3 2 Molds
- 10.4 4 Molds
- 10.5 14 Molds
- 10.6 15 Molds
- 10.7 20 Molds
- 10.8 Other Number of Molds

11 GLOBAL BLOW FILL SEAL EQUIPMENT MARKET, BY DECORATIONS OF THE CONTAINERS

- 11.1 Introduction
- 11.2 Direct Printed
- 11.3 Labelled
- 11.4 Moulded
- 11.5 Ink-Jet Printed
- 11.6 No Decoration on BFS-Container

12 GLOBAL BLOW FILL SEAL EQUIPMENT MARKET, BY SHAPE

- 12.1 Introduction
- 12.2 Cylindrical
- 12.3 Squared
- 12.4 Hexagonal
- 12.5 Irregularly

13 GLOBAL BLOW FILL SEAL EQUIPMENT MARKET, BY END USER

- 13.1 Introduction
- 13.2 Cosmetics and Personal Care
- 13.3 Pharmaceuticals
- 13.4 Food and Beverages
- 13.5 Chemicals
- 13.6 Other End Users

14 GLOBAL BLOW FILL SEAL EQUIPMENT MARKET, BY GEOGRAPHY

- 14.1 Introduction

14.2 North America

14.2.1 US

14.2.2 Canada

14.2.3 Mexico

14.3 Europe

14.3.1 Germany

14.3.2 UK

14.3.3 Italy

14.3.4 France

14.3.5 Spain

14.3.6 Rest of Europe

14.4 Asia Pacific

14.4.1 Japan

14.4.2 China

14.4.3 India

14.4.4 Australia

14.4.5 New Zealand

14.4.6 South Korea

14.4.7 Rest of Asia Pacific

14.5 South America

14.5.1 Argentina

14.5.2 Brazil

14.5.3 Chile

14.5.4 Rest of South America

14.6 Middle East & Africa

14.6.1 Saudi Arabia

14.6.2 UAE

14.6.3 Qatar

14.6.4 South Africa

14.6.5 Rest of Middle East & Africa

15 KEY DEVELOPMENTS

15.1 Agreements, Partnerships, Collaborations and Joint Ventures

15.2 Acquisitions & Mergers

15.3 New Product Launch

15.4 Expansions

15.5 Other Key Strategies

16 COMPANY PROFILING

- 16.1 Gerresheimer AG
- 16.2 Adinath International
- 16.3 Robert Bosch GmbH
- 16.4 Serac Group
- 16.5 Syntegon Technology GmbH
- 16.6 Recipharm AB
- 16.7 Marchesini Group S.p.A.
- 16.8 Brevetti Angela S.r.l.
- 16.9 Gea Group Aktiengesellschaft
- 16.10 Rommelag Kunststoff-Maschinen Vertriebsgesellschaft GmbH
- 16.11 Foshan Coretamp Packaging Machinery Co. Ltd
- 16.12 Unither Pharmaceuticals
- 16.13 Takeda Pharmaceutical Company Limited
- 16.14 GlaxoSmithKline plc
- 16.15 Weiler Engineering, Inc

List Of Tables

LIST OF TABLES

Table 1 Global Blow Fill Seal Equipment Market Outlook, By Region (2024-2032) (\$MN)

Table 2 Global Blow Fill Seal Equipment Market Outlook, By Product (2024-2032) (\$MN)

Table 3 Global Blow Fill Seal Equipment Market Outlook, By Bottles (2024-2032) (\$MN)

Table 4 Global Blow Fill Seal Equipment Market Outlook, By Ampoules (2024-2032) (\$MN)

Table 5 Global Blow Fill Seal Equipment Market Outlook, By Vials (2024-2032) (\$MN)

Table 6 Global Blow Fill Seal Equipment Market Outlook, By Prefilled Syringes & Injectable (2024-2032) (\$MN)

Table 7 Global Blow Fill Seal Equipment Market Outlook, By Capacity (2024-2032) (\$MN)

Table 8 Global Blow Fill Seal Equipment Market Outlook, By Upto 5,000 Containers/Hr (2024-2032) (\$MN)

Table 9 Global Blow Fill Seal Equipment Market Outlook, By 5,000-10,000 Containers/Hr (2024-2032) (\$MN)

Table 10 Global Blow Fill Seal Equipment Market Outlook, By Above 10,000 Containers/Hr (2024-2032) (\$MN)

Table 11 Global Blow Fill Seal Equipment Market Outlook, By Filling Volume (2024-2032) (\$MN)

Table 12 Global Blow Fill Seal Equipment Market Outlook, By Upto 100 ML (2024-2032) (\$MN)

Table 13 Global Blow Fill Seal Equipment Market Outlook, By 100 ML to 250 ML (2024-2032) (\$MN)

Table 14 Global Blow Fill Seal Equipment Market Outlook, By 250 ML to 1000 ML (2024-2032) (\$MN)

Table 15 Global Blow Fill Seal Equipment Market Outlook, By More Than 1000 ML (2024-2032) (\$MN)

Table 16 Global Blow Fill Seal Equipment Market Outlook, By Category (2024-2032) (\$MN)

Table 17 Global Blow Fill Seal Equipment Market Outlook, By Rotating (2024-2032) (\$MN)

Table 18 Global Blow Fill Seal Equipment Market Outlook, By Cyclic (2024-2032) (\$MN)

Table 19 Global Blow Fill Seal Equipment Market Outlook, By Number of Cavities (2024-2032) (\$MN)

Table 20 Global Blow Fill Seal Equipment Market Outlook, By Up to 5 (2024-2032)

(\$MN)

Table 21 Global Blow Fill Seal Equipment Market Outlook, By 6 to 10 (2024-2032)

(\$MN)

Table 22 Global Blow Fill Seal Equipment Market Outlook, By 11 to 20 (2024-2032)

(\$MN)

Table 23 Global Blow Fill Seal Equipment Market Outlook, By More Than 20 (2024-2032) (\$MN)

Table 24 Global Blow Fill Seal Equipment Market Outlook, By Number of Mold (2024-2032) (\$MN)

Table 25 Global Blow Fill Seal Equipment Market Outlook, By 1 Mold (2024-2032) (\$MN)

Table 26 Global Blow Fill Seal Equipment Market Outlook, By 2 Molds (2024-2032) (\$MN)

Table 27 Global Blow Fill Seal Equipment Market Outlook, By 4 Molds (2024-2032) (\$MN)

Table 28 Global Blow Fill Seal Equipment Market Outlook, By 14 Molds (2024-2032) (\$MN)

Table 29 Global Blow Fill Seal Equipment Market Outlook, By 15 Molds (2024-2032) (\$MN)

Table 30 Global Blow Fill Seal Equipment Market Outlook, By 20 Molds (2024-2032) (\$MN)

Table 31 Global Blow Fill Seal Equipment Market Outlook, By Other Number of Molds (2024-2032) (\$MN)

Table 32 Global Blow Fill Seal Equipment Market Outlook, By Decorations of the Containers (2024-2032) (\$MN)

Table 33 Global Blow Fill Seal Equipment Market Outlook, By Direct Printed (2024-2032) (\$MN)

Table 34 Global Blow Fill Seal Equipment Market Outlook, By Labelled (2024-2032) (\$MN)

Table 35 Global Blow Fill Seal Equipment Market Outlook, By Moulded (2024-2032) (\$MN)

Table 36 Global Blow Fill Seal Equipment Market Outlook, By Ink-Jet Printed (2024-2032) (\$MN)

Table 37 Global Blow Fill Seal Equipment Market Outlook, By No Decoration on BFS-Container (2024-2032) (\$MN)

Table 38 Global Blow Fill Seal Equipment Market Outlook, By Shape (2024-2032) (\$MN)

Table 39 Global Blow Fill Seal Equipment Market Outlook, By Cylindrical (2024-2032) (\$MN)

Table 40 Global Blow Fill Seal Equipment Market Outlook, By Squared (2024-2032) (\$MN)

Table 41 Global Blow Fill Seal Equipment Market Outlook, By Hexagonal (2024-2032) (\$MN)

Table 42 Global Blow Fill Seal Equipment Market Outlook, By Irregularly (2024-2032) (\$MN)

Table 43 Global Blow Fill Seal Equipment Market Outlook, By End User (2024-2032) (\$MN)

Table 44 Global Blow Fill Seal Equipment Market Outlook, By Cosmetics and Personal Care (2024-2032) (\$MN)

Table 45 Global Blow Fill Seal Equipment Market Outlook, By Pharmaceuticals (2024-2032) (\$MN)

Table 46 Global Blow Fill Seal Equipment Market Outlook, By Food and Beverages (2024-2032) (\$MN)

Table 47 Global Blow Fill Seal Equipment Market Outlook, By Chemicals (2024-2032) (\$MN)

Table 48 Global Blow Fill Seal Equipment Market Outlook, By Other End Users (2024-2032) (\$MN)

Note: Tables for North America, Europe, APAC, South America, and Middle East & Africa Regions are also represented in the same manner as above.

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