

# **Food Sterilization Equipment Market - Global Industry Size, Share, Trends, Opportunity, and Forecast Segmented By Technology (Heat, Steam, Radiation, Chemical, Filtration, and Others), By Process (Batch Sterilization and Continuous Sterilization), By Application (Spices, Seasonings & Herbs, Cereals & Pulses, Meat, Poultry & Seafood, Dairy Products, and Others), By Region & Competition, 2021-2031F**

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## **Abstracts**

The Global Food Sterilization Equipment Market is projected to expand from USD 1.08 Billion in 2025 to USD 1.56 Billion by 2031, achieving a CAGR of 6.32%. This sector comprises industrial machinery designed to eradicate microbial contaminants, such as bacteria and spores, from food items to guarantee safety for consumption and prolong shelf life. The market's growth is largely fueled by the rising global intake of processed and convenience foods, which demands dependable preservation techniques to uphold quality over time. Furthermore, rigorous international food safety standards compel manufacturers to implement sophisticated thermal and alternative processing technologies to minimize pathogen risks and ensure regulatory adherence.

Conversely, the substantial capital expenditure necessary for installing and maintaining these intricate systems presents a major hurdle to market growth for smaller enterprises with restricted budgets. This financial difficulty is evidenced by recent industry output statistics showing volatility in equipment investment. As reported by VDMA, production within the food processing and packaging machinery sector fell by approximately 2 percent to 16.1 billion euros in 2024. This data underscores how economic strains and high investment costs can obstruct the widespread adoption of equipment, even amidst

an underlying requirement for safer food products.

## **Market Driver**

The escalating consumer preference for processed and convenience foods is fundamentally transforming the sterilization equipment landscape, pushing manufacturers to scale operations to supply safe, shelf-stable ready-to-eat meals. This shift in consumption habits drives processors to invest in high-capacity retorts and continuous sterilization systems capable of managing large volumes while ensuring strict pathogen elimination. The commercial significance of this trend is highlighted by the financial results of major technology providers who are securing larger contracts to support this production volume. For instance, JBT Corporation reported in their 'Fourth Quarter and Full Year 2023 Results' in February 2024 that full-year orders for food technology solutions increased by 5 percent to \$1.668 billion, reflecting sustained industry activity aimed at enhancing processing capabilities.

Concurrently, the growth of the beverage and dairy processing industries is accelerating the uptake of advanced aseptic and UHT sterilization technologies. As producers diversify into functional drinks and plant-based dairy alternatives, they require versatile equipment capable of preserving product integrity without the need for refrigeration. This sector-specific surge has become a critical revenue source for equipment manufacturers, distinct from general food processing. According to the GEA Group's 'Annual Report 2023' published in March 2024, order intake within the beverage and new food customer industries recorded double-digit year-on-year growth, significantly outperforming other segments. Moreover, despite broader economic pressures, the intent to modernize remains strong; the Food and Drink Federation's 'State of Industry Report Q2 2024' from August 2024 noted that 56 percent of surveyed manufacturers planned to increase their investments in plant and machinery over the coming year.

## **Market Challenge**

The significant capital expenditure required to acquire and maintain industrial sterilization systems acts as a primary impediment to the growth of the global market. Advanced machinery, which incorporates complex thermal or non-thermal processing technologies, demands a substantial upfront financial commitment that often exceeds the budgetary capabilities of small and medium-sized enterprises. This financial strain is further intensified by the operational costs associated with high energy consumption and the necessity for specialized technical maintenance. Consequently, smaller manufacturers frequently postpone facility modernization or depend on legacy

equipment, effectively narrowing the customer base for new technology adoption and stalling overall market volume.

This reluctance to invest in capital-intensive infrastructure is clearly reflected in recent industrial performance data. According to the VDMA Food Processing and Packaging Machinery Association, incoming orders for the sector declined by 7 percent during the first seven months of 2024 compared to the previous period. This reduction in order intake illustrates how cost pressures directly influence purchasing decisions, causing manufacturers to withhold investment despite the operational need for safer food processing solutions. Such a contraction in equipment orders directly correlates with a deceleration in the broader market's expansion.

## **Market Trends**

The growing adoption of High-Pressure Processing (HPP) systems marks a major transition toward non-thermal preservation methods that align with consumer preferences for fresh, clean-label products. Unlike traditional thermal sterilization, which can degrade nutrients and sensory qualities, HPP applies extreme hydrostatic pressure to eliminate pathogens while retaining the food's original taste and nutritional value. This technology is gaining rapid traction among processors seeking to extend shelf life without synthetic additives or heat damage. The commercial momentum of this trend is substantial; according to Hiperbaric's 'Hiperbaric Marks 25 Years of Innovation' press release in October 2024, the company projects a record revenue of 75 million euros for the year, marking a 20 percent increase driven by the surging global demand for high-pressure technologies.

Simultaneously, the integration of artificial intelligence for predictive maintenance and real-time monitoring is transforming how sterilization lines are managed and optimized. Manufacturers are incorporating smart algorithms and IoT sensors to analyze equipment performance data, allowing them to predict component failures and schedule repairs before costly breakdowns occur. This digital evolution addresses the critical need for operational efficiency and consistent safety standards in complex, capital-intensive processing environments. The scale of this technological commitment is evident; according to Rockwell Automation's '9th Annual State of Smart Manufacturing Report' in April 2024, 95 percent of industrial manufacturers have either invested in or plan to invest in artificial intelligence and machine learning solutions to enhance their production capabilities.

## **Key Market Players**

De Lama S.p.A.

Sun Sterifaab Pvt. Ltd.

JBT Corporation

ALLPAX Products LLC

The Buhler Holding AG

Cosmed Group, Inc.

Ventilex B.V.

Surdry S.L.

Steriflow

Systec GmbH

## **Report Scope**

In this report, the Global Food Sterilization Equipment Market has been segmented into the following categories, in addition to the industry trends which have also been detailed below:

### **Food Sterilization Equipment Market, By Technology**

Heat

Steam

Radiation

Chemical

Filtration

Others

## Food Sterilization Equipment Market, By Process

Batch Sterilization

Continuous Sterilization

## Food Sterilization Equipment Market, By Application

Spices

Seasonings & Herbs

Cereals & Pulses

Meat

Poultry & Seafood

Dairy Products

Others

## Food Sterilization Equipment Market, By Region

North America

United States

Canada

Mexico

Europe

France

United Kingdom

Italy

Germany

Spain

Asia Pacific

China

India

Japan

Australia

South Korea

South America

Brazil

Argentina

Colombia

Middle East & Africa

South Africa

Saudi Arabia

UAE

## **Competitive Landscape**

Company Profiles: Detailed analysis of the major companies present in the Global Food

*Food Sterilization Equipment Market - Global Industry Size, Share, Trends, Opportunity, and Forecast Segmented...*

Sterilization Equipment Market.

**Available Customizations:**

Global Food Sterilization Equipment Market report with the given market data, TechSci Research offers customizations according to a company's specific needs. The following customization options are available for the report:

**Company Information**

Detailed analysis and profiling of additional market players (up to five).

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