

Blast Freezing for Frozen Food and Feed Market Opportunity, Growth Drivers, Industry Trend Analysis, and Forecast 2025 - 2034

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Abstracts

The Global Blast Freezing For Frozen Food And Feed Market was valued at USD 29.5 billion in 2024 and is estimated to grow at a CAGR of 5.5.% to reach USD 50.2 billion by 2034, driven by the surge in demand for high-quality frozen food, convenient ready-to-eat meals, and strict food safety regulations. Blast freezing is crucial in maintaining the texture, flavor, and nutritional value of a wide range of food products while extending their shelf life. This method is commonly used in industries like food processing, seafood, meat, and bakery, where rapid freezing ensures products are preserved in optimal conditions.

Blast freezing technology helps in reducing food waste by preserving products at their peak freshness, which extends shelf life and minimizes spoilage. This is particularly vital in the food industry, where managing inventory and reducing waste are key concerns for manufacturers, retailers, and consumers alike. The growing focus on sustainability and efficiency within food supply chains is driving the adoption of blast freezing as an essential tool for quality control and waste reduction. Additionally, as the demand for frozen products continues to rise, particularly in developing markets, the need for advanced freezing techniques that maintain the integrity of the product while reducing energy consumption is becoming increasingly critical.

The human consumption segment is set to reach USD 21.7 billion in 2025, growing at a 5.8% CAGR through 2034 encompassing a wide range of products that rely on blast freezing to preserve their quality and safety. Meats, seafood, vegetables, ready meals, and bakery products are among the most common foods that benefit from blast freezing technology. By ensuring the preservation of texture, flavor, and nutritional value during freezing, this process is vital for the global distribution of food while adhering to stringent

food safety standards. As urbanization and the demand for convenient, ready-to-eat meals continue to rise, the role of blast freezing in maintaining the quality and safety of frozen foods becomes even more critical.

The market is segmented by product type into food and feed, with food being the dominant segment, valued at USD 26.2 billion in 2024. The food segment includes a broad range of products such as meat, seafood, dairy, fruits, vegetables, and bakery goods, which require blast freezing for preservation. Urbanization, alongside the rise of online grocery stores and retail development, has also played a role in boosting this market. Additionally, the increasing need for convenience foods and products with longer shelf lives continues to drive the demand for rapid freezing solutions. The food processing industry, which holds a significant portion of the market, uses blast freezing to preserve raw materials and finished products for quality assurance.

United States Blast Freezing for Frozen Food and Feed Market generated USD 6 billion in 2024, driven by the consumption and the adoption of advanced freezing methods. Innovations such as IoT-enabled blast freezers have improved operational efficiency and reduced energy consumption by 20%, all while maintaining product quality. Additionally, the shift to more sustainable refrigerants, like carbon dioxide and ammonia, is gaining traction as consumers and businesses alike place more emphasis on environmental responsibility.

Key players in the Blast Freezing for Frozen Food and Feed Market include McCain Foods, General Mills, Charoen Pokphand Foods, Archer Daniels Midland (ADM), and Conagra Brands. These companies are leveraging strategies such as the development of energy-efficient and automated freezing solutions, expanding their product portfolios, and focusing on sustainability to enhance their market positions. By introducing innovative technologies and improving operational efficiencies, they aim to meet the increasing demand for high-quality, frozen food products while maintaining competitive advantages.

Companies Mentioned

Archer Daniels Midland (ADM), Charoen Pokphand Foods, Conagra Brands, General Mills, McCain Foods, Nestle S.A., Nomad Foods, Tyson Foods, Unilever, Machine manufacturer, Lineage Logistics, Americold, United States Cold Storage, InterChange Cold Storage

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