

What's New in **Food**

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**Freezing, Chilling &
Product Sortation
IBEX Handles It All**

Freezing, chilling and product sortation

IBEX specialises in the customised design and installation of innovative temperature change and sortation systems, designing each solution specifically to meet individual customers' requirements.

IBEX's products range from simple 'first in, first out' freezers, such as the innovative and revolutionary Stack Freezing System (SFS), through to its flagship product, the highly efficient Temperature Control System (TCS). IBEX systems are designed to improve production efficiencies and product quality during the freezing, chilling and sortation processes.

Solutions for smaller production volumes

The SFS, designed for products requiring a single, specific temperature profile change, is suited to production volumes of less than 2 tonnes per hour. The SFS provides a significantly higher output per square metre of floor space and reduced maintenance costs over other single retention options, such as traditional spiral freezers or blast cells.

The SFS provides the opportunity to increase production capacity while reducing the cost per unit to freeze and features continuous inline freezing, superior product handling and a highly efficient temperature distribution pattern for improved product quality.

Solutions for larger production volumes

For larger production volumes, IBEX has developed the TCS, a shelf-type carton tunnel designed to handle multiple product types with differing freezing and chilling requirements at rates of 2 to 100 tonnes of continuous production per hour. The TCS improves product quality and consistency during freezing and chilling while lowering energy consumption and costs.

Adding to the ability to sort up to 80% of an entire day's production from a single in-feed conveyor, the TCS allows operators to track products at all times within the system, vary the retention time of individual products and can also act as buffer storage to ensure that operations continue in the event of processing interruptions either upstream or downstream — all at the press of a button. The TCS is changing the industry's approach to freezing, chilling and product sortation.

Where retention times are the same and production flexibility is not required, IBEX offers a Fixed Time System (FTS). The FTS is a first in, first out carton tunnel for fixed duration freezing or chilling featuring the same parallel airflow as the TCS to ensure product consistency, with similar opportunities to lower energy consumption. The simplified nature of the FTS, however, means it is unable to deliver the level of flexibility the TCS can.

Solutions for product sortation

IBEX also offers a single unit sortation system — the Product Collation System (PCS) which efficiently collates and sorts multiple product types simultaneously. IBEX's approach to product sortation reduces product damage and spoilage, reduces worker injury and compensation claims, and improves product tracking and traceability.

The fully automated PCS is a standalone system that can be integrated into existing freezing or chilling capabilities, or in conjunction with the TCS. Operating at all times in a chilled or frozen environment and requiring less floor space than traditional sortation methods, the PCS can even be programmed to order pick! PCS complements the SFS, TCS and IBEX's full range of conventional freezing and chilling systems, including Spiral and IQF freezers.

Global technology, local implementation

Founded in New Zealand and with over 20 years' experience in providing solutions unparalleled in the industry, IBEX's philosophy is to work in partnership with manufacturers and customers to provide the right solution for each specific application and offer turnkey solutions including peripheral equipment such as case closers, lidders, palletisers through to full refrigeration systems.

The IBEX product range changes the traditional cost aspects of freezing, chilling and sortation into an opportunity to reduce costs. 📍

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