



# Carton Box Freezers

Unifreezing Carton Box Freezers are used to freeze (shock freezing) packaged products in continuing production lines. The optimal range of our Carton Box Freezer are freezing services from 3 to 30 tons per hour. The average temperature is approximately  $-35^{\circ}\text{C}$  in the freezer. Freezing products, such as: beef, horsemeat, poultry, pork, fish, ready meals, can be finished in crates or cartons. Average freezing times  $-18^{\circ}\text{C}$  in open cardboard boxes, poultry: for example chicken tightly packed 4, we recommend 7 hours for fastest freezing to use open cartons/boxes. The freezing times in the case of closed boxes/crates are to determine upfront production.

## Features of Unifreezing Carton Box Freezers:

- Simultaneous freezing of products with different freezing times
- Improving and securing the quality of freezing
- Reduces the amount of work and saves on personnel costs
- High storage capacity with compact use of space
- Reduction of energy costs through efficient freezing process
- Gentle transport of the goods (just rolling)
- Long is operational between the defrost periods
- Good behavior of start-up after longer operating breaks
- High flexibility in design (height/width/depth)
- Height & position of in-/output selectable

## Logistics and control:

- Automatic input and retrieval logistics including extensive control and freezing time display system display
- Flexible, configurable input and retrieval strategy for rapid adaptation to changing production conditions
- Possibility of laying time controlled retrieval orders via PC
- High availability (rapid fault diagnosis through remote maintenance modem or via Internet)

The location of the supply and removal of the frozen food is variable with regard to arrangement and infeed height. The control and visualization system is using automation system (E.g. Simatic S7-400). Information about the current number and type of products in the freezer are available at any time. Unifreezing provides on request, custom made is a one of our qualities, also the insulating housing with doors and locks, as well as the delivery system before and after the freezer with sorting facilities.

## Quality and expertise

The Unifreezing Carton Boxes are always made by the wishes of the customer, custom-made is our strength. With our 20 years of experience as production & engineering company in the food machinery we know exactly what you need as a customer.