

Ahorramas

# Automating Frozen Goods for a Smarter Cold Chain

Ahorramas, one of Spain's leading supermarket chains, has taken a significant step in modernizing its cold chain with the implementation of an automated frozen goods warehouse. With over 285 stores distributed in the Community of Madrid and Castilla-La Mancha, the company aims to optimize its logistics operations, particularly in the management of frozen products such as bread. To achieve this, Ahorramas has partnered with Körber for technological automation solutions.

## The Cold Chain Challenge and Automated Solution

Ahorramas faces growing demand for fresh and frozen products in its stores, requiring increased supply chain efficiency. In response, the company decided to modernize its frozen products warehouse, a facility that operates at extreme temperatures of -20°C. The project focuses on the implementation of an **Automated Storage and Retrieval System (ASRS)** with a capacity for 572 pallets, specifically designed to efficiently manage frozen goods pallets.

**The system includes two Pallet Shuttles equipped with Autonomous Satellite vehicles, capable of storing multiple pallets in depth. This allows for compact storage and rapid retrieval of products. Additionally, the solution integrates automatic goods entry and exit lines, seamlessly blending with the manual operations already in place at the warehouse.**

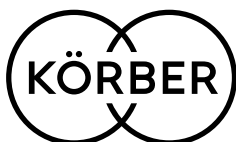


## Solution

- Multi-depth warehouse (572 pallets)
- 2 Pallet Shuttles (across 2 levels)
- 2 Autonomous Satellite Vehicles
- Conveyor and Lifting Systems
- Warehouse Management System (WMS)

## Key Benefits of the Project

- **Increased storage capacity** in a reduced space, maximizing warehouse utilization.
- **Faster management of frozen products**, improving response times for store supply.
- **Efficient automation in extreme conditions**, ensuring continuous operation **at -20°C**.
- **Reduction in operational costs** by optimizing processes and reducing the need for labor in severe conditions.



## A Strategic Partnership



The partnership with Körber strengthens Ahorramas's commitment to innovation and continuous improvement in its logistics operations. As highlighted by Ahorramas, this association represents **“a key step to increase our capacity and optimize resources, maintaining efficiency and sustainability throughout the supply chain.”**

The implemented solution not only enhances operational efficiency but also reinforces Ahorramas's position as a leader in Spain.

## Towards a Sustainable Future

This project also reflects Ahorramas's commitment to sustainability, as it reduces the energy consumption of the warehouse and optimizes logistics processes. With the implementation of this advanced technology, Ahorramas is well-positioned to face future challenges in the food sector, ensuring fresh and quality products for its customers while minimizing environmental impact.

In summary, the automation of Ahorramas's frozen goods warehouse, supported by Körber, marks a milestone in the evolution of the company's supply chain, solidifying its leadership in the efficient management of frozen products in Spain's competitive market.



Currently it works: 6 days a week, 16 hours a day. But the total working capacity is 365 days a year, 24 hours.

