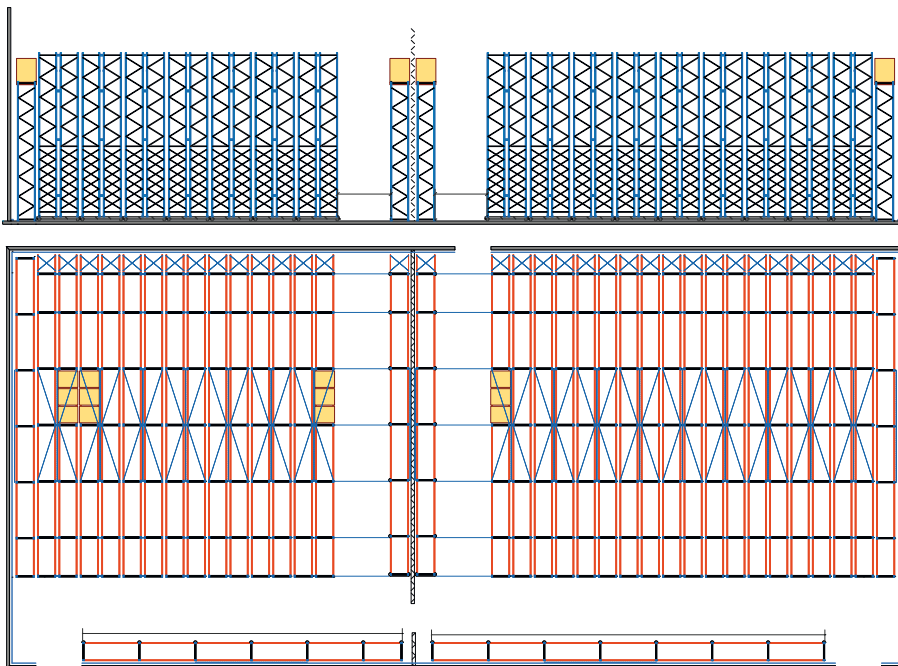


Case study: Cárnica Batallé
Movirack mobile pallet racking throughput
in a frozen storage installation

Location: Spain



Mecalux has provided Cárnica Batallé, a business specialising in pork cuts, with Movirack mobile pallet racking in its 1,485 m² frozen storage chamber located in Riudarenes (Girona). This system maximises the available surface area, obtaining a storage capacity of more than 3,900 pallets.



Needs and the solution

Cárnica Batallé is a family business that is known for its innovation and development of production processes in the pursuit of providing the best quality products.

To optimise the operation of the frozen storage chamber, which is maintained at -25°C and where ready to be sold consumer goods are kept, Cárnica Batallé sought out the advice of Mecalux.

After analysing the needs and business dealings of the company, Mecalux has equipped the frozen storage chamber with 16 double-deep Movirack mobile racks and four stationary ones, all 10 m high and 20 m long.

Overall, this means a storage capacity of over 3,900 pallets with a maximum weight of 1,000 kg each. In addition, there are two working aisles where operators manoeuvre reach trucks.



Movirack mobile racking

This is a high-density system that works via a single aisle and, also, provides direct access to all SKUs when the operator, using a remote-control device, orders the aisle to open.

Then, the mobile pallet racks displace laterally and autonomously on the rails.

The system is equipped with several safety devices that protect the operators and the stored goods:

- **External** sensors that stop everything in motion if a person enters the aisle.
- **Internal sensors** that detect the presence of objects inside the aisle, preventing the proper operation of the system.
- **Emergency mushroom** stop buttons in onboard cabinets that halt the racks from moving due to any incident.
- **Proximity sensors** ensure a safe and gentle stop.

Movirack mobile racks are suitable for frozen storage installations since the energy consumption per stored pallet is much lower due to the optimised volume of the chamber



External safety sensor





Advantages for Cárnica Batallé

- **Surface optimisation:** the Movirack system makes out space usage in the 1,485 m² installation, achieving a capacity of more than 3,900 pallets.
- **Streamlined goods management:** easily access any stored SKU simply by opening an aisle.
- **Energy savings:** energy consumption per stored pallet is lower because the volume of the chamber is optimised.
- **Safety first:** the racks have safety devices to ensure proper operations of the system.



Technical data

Storage capacity	3,921 pallets
Pallet size	1,000 x 1,200 mm
Max. pallet weight	1,000 kg
Racking height	10 m
Aisle length	20 m

