

Case Study

# Storage in Different Temperature Zones





# Customized handling

## Customer and task

SalzburgMilch produces milk products for the European market and must take account of different maturation periods and processes. It delivers its products in block form or as slices.

For the cutting operation, the goods are outsourced to an external service provider who then delivers them back to the company where they enter production. Adding to the complexity, each product requires different ambient temperatures depending on the processing stage.

## Solution

Kardex Mlog constructed a highly flexible high-bay warehouse with different temperature zones. In the ambient warehouse, the average temperature is 15° C, in the cold warehouse it is 4° C. After the pallets leave the production area, they are placed in a rapid-chill area.

The four SRM of type MSingle A with frequency-controlled motors carry out 36 to 38 double cycles per hour. The single or double-deep load handling devices pick up pallets in Euro and Düsseldorf format.

The warehouse management system sends all product information via LAN to the labeller, codes this information, and prints it out using its own printer. Different "maturation zones" can be mapped virtually.

In total, the complete system moves some 60 pallets per hour in the picking area, 90 pallets per hour in the retrieval of finished products, and 110 pallets per hour in the basement floor.

## At a glance

### Optimal conditions for 7,000 pallets

As part of the construction of SalzburgMilch's four-aisle high-bay warehouse, different temperature zones and product-specific holding times for the milk products in the warehouse had to be taken into account. Following the expansion, the approx. 7,000 pallet storage spaces now accommodate cheese, milk and other dairy products under optimal conditions.

Conveying  
capacity  
**110 pallets/hour**

Up to  
**38 double cycles**  
per hour

**Virtual  
maturation  
zones**





### Scope of delivery



Complete high-bay warehouse with four 75-metre long rows of racking and different temperature zones



4 storage and retrieval machines MSingle A with frequency-controlled motors, and height of 14 to 21 metres



Conveying technology including 2 vertical conveyors