

## CASE HISTORY PAC2000A Calabria, Italy

Grocery



### The Company

PAC 2000A Conad is the largest Cooperative within the Conad Consortium in terms of size and turnover, with a sales network spanning five regions in Italy.

The need to modernize its infrastructures led PAC2000A to invest in high technology solutions for its **warehouse in Calabria**, focusing on automation and storage density



### The Project

The main challenge for the **Montalto Uffugo (CS)** site was implementing an automated storage system capable of operating in a **high seismicity area** while ensuring flexibility and top tier performance.

The project's objective was to automate the pallet flow, eliminating bottlenecks and ensuring **long term scalability** to adapt to fluctuations in the retail market.

PAC2000A chose **System Logistics** for its ability to deliver a fully engineered, internally designed "turnkey solution" capable of handling load units with maximum accuracy and safety.



## The Solution: FRS System (Fast Rotation Storage)

System Logistics designed a system based on **FRS (Fast Rotation Storage)** technology, a **high density** solution for fast pallet storage and handling.

At the heart of the system is an automated warehouse structured over **5 levels with multi deep racking**, 16 pallets deep on each side, served by battery powered **Digibat shuttles**.

Pallets enter the system via overhead conveyor lines, where they **undergo strict shape, weight, and integrity checks**. Once validated, they are transferred to the storage levels through **single column elevators**, both inbound and outbound, feeding the picking and shipping bays.

The entire installation is managed by **Systore**, the proprietary WMS/WCS software that coordinates shuttle and elevator missions, optimizing cycle times and ensuring full traceability of goods.



## Results and Benefits

The introduction of the FRS system transformed PAC2000A's operations, delivering tangible benefits in volumetric efficiency and process fluidity.

› **Space optimization:** the high density system maximized storage capacity within a limited footprint, leveraging vertical development up to 12 meters.

- › **Operational continuity and reliability:** thanks to automated cycles, the system operates without requiring constant supervision, reducing operational risks and improving workplace safety.
- › **Quality and precision:** automatic shape and weight checks at entry prevent anomalies along the lines, ensuring that only compliant pallets access the storage lanes.
- › **Flexibility and scalability:** The modular design of the FRS system allows future expansions or adaptations to different load unit types, protecting long term investment.

Through this collaboration, PAC2000A strengthened its supply chain, making it ready to face the challenges of Large Scale Retail with a cutting edge, safe, and highly efficient infrastructure.



## Technical Highlights

- › **6.400** pallet positions.
- › 5 FRS shuttles equipped with **Digibat** satellites for multi deep storage.
- › Dimensions: 80m length, 33m width, 12m height.
- › **Systore Software** for full warehouse and PLC flow management.
- › Structure designed for seismic grade 1 (ag > 0.25)