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CASE HISTORY

ROSSETTO GROUP

Mantova, Italy

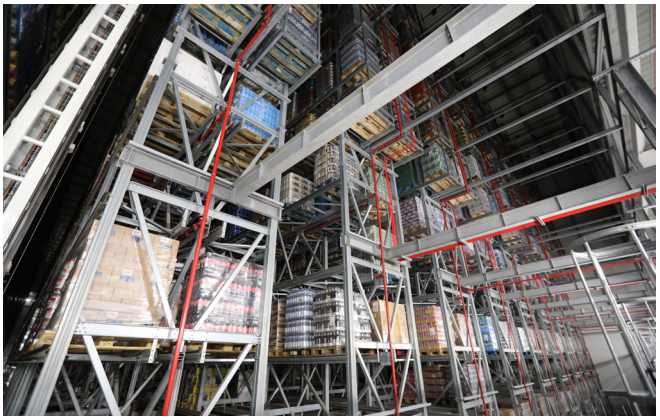
Grocery

The Company

Since 1965, the Rossetto Group has been one of the main players in the organized large-scale re-tail distribution in Italy. With 27 stores between hypermarkets and supermarkets, it is present in 11 important provinces of Veneto, Lombardia and Emilia-Romagna. The Group has a turnover of around 750 million euros and a workforce of over 2,300 employees. With two strategic distribution centers, Rossetto stands out for its consolidated regional presence and the ability to effectively serve the northern Italian market.

The Project

The warehouse automation project for the Rossetto Group was born from the need to optimize spaces and improve operational efficiency for the management of non-perishable products. In 2017, Rossetto decided to undertake this path to respond to a growing demand for storage, rationalizing the use of available space. The objective was clear: to create a highly automated warehouse capable of managing a large number of pallets, optimizing the inbound and outbound flows of goods.



The solution and the results

System Logistics has proposed a high-density storage solution that leverages advanced automation to manage around 44,000 pallet locations in an area of 8,725 square meters, with a height of 29 meters. The warehouse is divided into three macro areas: inbound, storage and outbound. The inbound area is equipped with six points for inserting the pallets, which are then transferred to the warehouse via an SVL (Shuttle Vehicle Loop) system composed of 11 shuttles. The heart of the warehouse is made up of 12 stacker cranes, which manage the pallets on shelves with 13 variable height levels. This configuration allows for optimal use of the available space, reducing operating costs and improving workflow efficiency. The system can handle an inbound flow of 220 pallets per hour and an outbound flow of 160 pallets per hour. Overall, the warehouse is able to manage up to 12,000 different references, ensuring optimal and flexible storage and handling operations.

Sustainability

The solution implemented by System Logistics not only has improved operational efficiency, but also had a positive impact on the sustainability of the entire process. The optimization of spaces and the use of automated technologies significantly reduce energy consumption and CO2 emissions. Furthermore, the need for high-quality pallets for the operation of the automated system encourages suppliers to guarantee higher standards, contributing to a more sustainable material lifecycle.

The collaboration between the Rossetto Group and System Logistics has led to a custom-made solution, capable of responding to the specific needs of the customer, with a focus on sustainability and operational efficiency.

Technical Characteristics

- **Number of pallet locations:** 44,000
- **Warehouse height:** 29 meters
- **Storage area:** 8,725 square meters
- **Stacker cranes:** 12
- **Racking levels:** 13
- **SVL shuttles:** 11
- **Pallet intake points:** 6
- **Intake capacity:** 220 pallets/hour
- **Outbound capacity:** 160 pallets/hour
- **Number of managed references:** 12,000
- **Warehouse structure:** Self-supporting, single depth