

Curtatone (MN), May 9th 2024

On 7th May 2024, Replica Sistemi – Zucchetti organised the event “**Visit to Fiorentini Alimentari: WMS and automation for a cutting-edge supply chain**”, held at the new industrial centre of the Turin company, which has been specialising in the production and distribution of bread substitutes and snacks based on cereals, legumes and vegetables since 1918.

The company was originally founded north of Turin. Since 2015, it has been developing its current new headquarters and new factory in Trofarello. The new facilities are designed with a **high degree of logistics and industrial automation**, covering an area of approximately 56,000 square metres. This includes 15,000 square metres dedicated to production, 5,000 square metres to the warehouse, and 5,000 square metres to offices. The company is still expanding to increase the pallet spaces of the automatic warehouse and some production lines by 50%.

The new construction also necessitated a **restructuring of the information systems, which commenced with a software selection process involving 14 Italian software producers**. As all the necessary criteria were met, it was agreed to proceed with sedApta’s proposals for production management and **Replica Sistemi’s WMS StockSystem** for managing the entire supply chain, both of which were implemented in 2019 initially in the Turin factory.

In the same summer, 10,000 pallets of finished product were transported to the new Trofarello plant within the **automated warehouse**. Following the successful testing of the new production lines, the entire production sector was transferred in 2020. This involved the use of the **compactable warehouse** and a **large fleet of LGVs** for the automatic replenishment of raw materials in the line stands.

In the production sector, **StockSystem is integrated with the software for mixture, the traceability and purchasing planning system**.

Furthermore, it oversees the management of returns and unused pallets by dispatching collection missions to LGVs, which transport the materials back to the compactable warehouse.

Once the production process is complete, **each pallet of finished product is taken over by StockSystem** through operators who scan the barcode of the loading unit. **The WMS then transmits the storage missions to the LGVs, which are directed to the automated warehouse**. This warehouse is responsible for preparing the goods in the mapped areas.

By communicating with the sales planning software, **StockSystem starts the picking activities, ordering the automatic warehouse to lower entire pallets** which can then be sorted if destined for groupage.

Once the material of an order is ready for shipment, **the WMS will communicate with the TMS** to choose the most convenient carrier, print the labels, book the arrival of the vehicle at the bay for loading, and print the DDT.

Once the shipment has been made, **StockSystem integrates with the Microsoft Dynamics 365 BC ERP** for invoicing, which was implemented in January this year.

Subsequently, **Maurizio Ghiselli**, *Senior Account Manager Replica Sistemi*, took the floor and presented Replica Sistemi and the software of the **SMA.I.L.) – SMART INTEGRATED LOGISTICS** platform: the **WMS StockSystem**, the **TMS EasyTrip** e the **YMS EasYard** to manage and optimize all flows of vehicles, goods and people along the entire supply chain.

Finally, the participants were organised into groups led by young and competent engineers. They then proceeded to the plant to gain an insight into the industrial and logistical automation of production and warehouse operations. This involved observing **LGV forklifts that operate autonomously, transporting raw materials into production and finished products to the automatic warehouse**. The latter then moves the pallets of finished products to be sorted, preparing them for delivery to customers.

The event ended with a tribute to all the participants, who thanked Fiorentini Alimentari for their availability and hospitality.

You can find the event video and the presentation here:

<https://www.replicasistemi.com/en/news/visit-to-fiorentini-alimentari-wms-and-automation-for-a-cutting-edge-supply-chain>









