case **history**

FIORENTINI TORINO 1918

company name

Fiorentini Alimentari Spa

product sector

Food & Beverage

surface of Trofarello plant

56.000 m²

website

www.fiorentinialimentari.it

WMS & Industrial Automation and Logistics for a successful Supply Chain

Fiorentini Alimentari, a leading producer and distributor of healthy, organic and gluten-free products, particularly puffed cereal cakes, has enjoyed a fruitful partnership with **Replica Sistemi**. The **Stocksystem® WMS provides real-time inventories** for both production plants, **coordinates the direction of the entire supply chain in the production and distribution areas**, and integrates with all industrial automation and logistics software, including the ERP, MES, blending system, LGV fleet, automated warehouse, compact warehouse, traceability system, purchase planning system, and TMS.

Replica Sistemi's solution

- **WMS StockSystem**

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case **history**

Company

Fiorentini Alimentari is a company based in the Turin area that operates in the food sector. It produces and distributes healthy, organic and gluten-free products, with a particular focus on puffed cereal cakes.
The company's principal distribution channel is the Italian large-scale retail trade, where it offers both its own brand and private label products.

Two production plants
The primary production facility was inaugurated in 2019 in Trofarello. The facility covers an area of approximately 56.000 square metres, with 15.000 square metres dedicated to production, 5.000 square metres to the warehouse and 5.000 square metres to offices. Expansion is underway to increase the pallet spaces of the automated warehouse and some production lines by 50%. The plant is highly automated and computerised, with galettes produced on-site and all sales orders prepared and dispatched.

The second plant is the historical plant in Turin, which will be completely renovated in 2022 and where nut spreads are produced.

Why Replica Sistemi

"We conducted a rigorous software selection process to identify a comprehensive product suite that could address all supply chain processes, from order issuance to supplier management and sales order dispatch. We evaluated 14 companies and found that the joint proposal from Replica Sistemi and sedApta fully aligned with our business requirements.

Furthermore, I had the opportunity to meet with both the owner of Replica Sistemi and the owner of sedApta, who exhibited many similarities to Dr. Fiorentini, including a passion for their work and a clear vision for future. Their experience was a significant factor in our decision to select Replica Sistemi."

Cesare Schiavon – Logistics & IT Manager
FIORENTINI ALIMENTARI

Needs and Project

As the number of references, production combinations, and customers increased, it became essential to adopt tools that would allow for the **rapid calculation of what to order from suppliers**, **the monitoring of production and order preparation**, and the assessment of the feasibility of the scheduling and **delivery plan**.

In 2015, Fiorentini Alimentari initiated the design and construction of the Trofarello site.

In March 2017, the company initiated the process of selecting software for supply chain management. This concluded in December with the selection of suppliers Replica Sistemi - sedApta.

In 2018, a production process analysis was conducted to identify the AS-IS and TO-BE processes.

In January 2019, the WMS StockSystem, MRP and MES were implemented in the old factory in Turin.

In August 2019, the finished goods warehouse was relocated from Turin to Trofarello, and the Automated Warehouse for sales order management was commissioned.

Fiorentini's primary objective was to implement a WMS software capable of processing thousands of hourly movements in real time from multiple sources. It is crucial to have stock updated in real time in order to make the most of the planning tools.

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In 2020, the transfer of the old production lines from Turin to Trofarello was completed, with the integration of the WMS StockSystem with:

- MES SEDAPTA
- PROMISE SEDAPTA (sales planning)
- INVENTORY SEDAPTA (purchase planning)
- SEDAPTA TRACEABILITY SYSTEM
- AGRIFLEX (mixture management system)
- SYSTEM LOGISTICS LGV FLEET
- OVER 50 RF READER
- SYSTEM LOGISTICS COMPACT WAREHOUSE
- SYSTEM LOGISTICS AUTOMATIC WAREHOUSE
- TMS THESIS SQUARE
- COLOS MARKEM LABELLING SYSTEM

In January 2024, the company completed the integration with the new ERP, Microsoft Dynamics 365 BC.

StockSystem manages approximately 1.300 SKUs and processes over 2.000 order lines daily.

PRODUCTION

In production, StockSystem coordinates the LGV fleet in the supply operations of all materials (raw materials from the compactable warehouse, packaging and consumables from the automatic warehouse) with FEFO (first-expired, first out) and FIFO (first in, first out) logic. It also manages line returns by returning them to the respective warehouses. Furthermore, StockSystem interfaces with the MES (Manufacturing Execution System) for preparation and maintenance orders, providing complete and constant traceability of each order and maintaining control of stocks in the various warehouses.

Finally, the system records consumption for improved management of the mixtures and coordinates the handling between the group's two plants, in Turin and Trofarello.

DISTRIBUTION

Considering distribution, once the production process is completed, StockSystem assumes responsibility for each pallet of finished product and directs the LGV fleet to undertake storage mission at the automatic warehouse.

By communicating with the sales planning software, Replica Sistemi's WMS initiates also picking activities, by ordering to the automatic warehouse to lower pallets that, according to needs, can go directly to shipping or be sorted to form mixed pallets, groupage shipments or even eCommerce orders.

Once a shipment is ready, StockSystem interfaces with the TMS, indicating the number of pallets on the ground. This enables the most suitable carrier to be selected for the transport, with the booking of the vehicle in the loading bay, printing of the labels and waybill arranged accordingly.

Finally, StockSystem integrates with the ERP for invoicing purposes.

The Benefits of Integration

Fiorentini Alimentari has experienced **year-on-year growth**, with increasing volumes leading to technological complexities.

StockSystem is the central hub of all logistics and distribution operations. It is a robust tool that enables the processing of thousands of warehouse movements, both those developed directly by StockSystem and those received from field automations. It also centralises stocks coming from multiple tools.

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A tangible **productivity recovery** was achieved thanks to:

- reduction of line stock-outs for the production of both continuous flow items and on order;
- speed and accuracy in order preparation;
- reduction of order preparation errors and reduction of customer returns;

Furthermore, Fiorentini Alimentari has a **complete traceability and retraceability** of all food products, raw materials and components.

The secret of Success

"Replica Sistemi's organisational structure is very lean and very solid. I am sure that in the future the partnership, which has now been going on for 7 years, will continue.

We have worked side by side for 7 years, carried out many innovations and I must say the partnership will continue."

Cesare Schiavon – Logistics & IT Manager
FIORENTINI ALIMENTARI

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