

CASE STUDY FOOD & BEVERAGE

FIORENTINI ALIMENTARI

Since 1918, the daily mission of **Fiorentini Alimentari S.p.A.** is to satisfy the need for well-being through taste. Born in Turin from a specialty food and ethnic products shop, today it is the main producer of bread substitutes and snacks based on cereals, legumes and vegetables. Fiorentini has transformed niche products inspired by macrobiotics into consumer products accessible to all those who are careful to combine taste, health and lightness.

In 2002, the Fiorentini production was born, centered on bread substitutes with attention to all facets of the theme, from gluten-free, vegan, organic, simple products, with a high level of quality, with a strong health value. Also, in 2002, Fiorentini was the first to produce corn cakes in Europe, one of the greatest successes in the history of the company.

The new cutting-edge production center for automation and 4.0 technology has been operational since 2020, where certified organic raw materials of predominantly Italian origin are transformed into a range of over 200 products. Today Fiorentini is one of the main European leaders for quality and production and is present in 55 countries around the world. Its mission is to make a healthy and organic product good, appetizing and affordable for everyone.

ANALYSIS

In 2002 Fiorentini Alimentari acquired the production company **Birko Srl** and thus became a commercial and logistics company, a sort of wholesaler that distributes food products of various kinds: from "Fiorentini" own brand products to Private brand products for the major large-scale distribution and discount chains, private labels for foreign chains and finally "ethnic" products such as couscous, soy sauce, Chinese and North African products.

Fiorentini was looking for a global solution consisting of a single flow involving both Fiorentini and Birko companies. The project was born precisely at the moving of the activities of Fiorentini and Birko in a new plant characterized by a high degree of automation.

Due to this transfer, a new factory information system was necessary, capable of making the planning systems and the control systems of the industrial process communicate.

Assuming a transfer time of no less than one year, it was therefore necessary that the new system was set up to manage both the activities of the plant being decommissioned (in the total absence of automation), and the activities of the new plant (at the forefront from a technological point of view) while providing for a transitional phase where the decommissioned plant and the future one were managed at the same time.



COMPANY

FIORENTINI ALIMENTARI SPA



SECTOR

FOOD



SIZE

27.000 SQM OF OFFICES,
SERVICES, WAREHOUSES
+ 250 EMPLOYEES AND
COLLABORATORS



TURNOVER

87.29 MLN € (2019)



SEDAPTA MODULES

INVENTORY MANAGEMENT
ORDER PROMISING
FACTORY SCHEDULING
SHOP FLOOR MONITOR
SMART ASSET MANAGEMENT
SUITE O.S.A.

SOLUTION

The project involved the implementation of the following sedApta application modules:

- » Inventory Management
- » Order Promising
- » Factory Scheduling
- » Shop Floor Monitor and Communication Manager (for connection to the field)
- » Smart Asset Management
- » Suite O.S.A. (Orchestrator, Analytics, Skillaware).

Primary targets to be achieved were:

- » Integrate tactical planning and executive management through the process orchestration
- » Integrate the planning of Brand and private label products
- » Coordinate a very strong order management dynamics (daily)
- » Model agile management of departmental declarations
- » Integrate all logistics management, including the automated warehouse and the automated guided vehicles (AGV)
- » Manage the complete traceability of materials along all phases of the production process
- » Manage breakdown and preventive maintenance.

BENEFITS

At the end of the project, which took place over two years, the main benefits that Fiorentini obtained were the following:

- » Harmonization of manageable processes through advanced integrated systems that allow for simplified control and analysis
- » Logistics integrated with operational phases of organic planning aimed at maximizing productivity
- » Factory information system capable to let planning and scheduling systems communicate as well as the control equipment of the industrial process
- » Planning and scheduling of production lines with a high degree of efficiency thanks to the reduction of time and waste
- » Management and collection of production data of the new Trofarello plant with a high degree of automation
- » Call management of consumables needed for daily productions at the involved line
- » Management of the quality controls carried out by the production operators on board the line in an integrated environment
- » Precise and real management of warehouses and stocks such as to always have the situation under control including the stock at the involved line
- » Scheduling of picking bays to plan the activities of order preparation for courier collection
- » Complete traceability management
- » Creation of an analysis and reporting environment that combines the cost data deriving from production, also other data and parameters present in the company and that support the pricing activities.



FIorentINI TORINO 1918