



THE COMPANY

The Forno Bonomi Bakery, a true historical landmark in Verona since the mid-1800s, was the first company to produce sponge fingers on a global scale. Nestled in greenery, the Forno Bonomi plant is located at the edge of the Lessinia Nature Park (in Roverè Veronese) and covers an area of approx. 65,000 square meters with a workforce of a stable number of 170 employees. Founded as a bakery, the company now boasts a production facility that combines a traditional oven with the latest technological systems and has become a major commercial landmark in the Lessinia community, with export sales of 59% to a total of 85 countries in Europe and overseas.

www.fornobonomi.com

Summary

Location: Roverè Veronese (Verona)

Industry: Food Production

Vertiv Solutions:

- UPS Liebert® Trinergy™ Cube 1200 kW
- Liebert GXT4™ 6000 VA
- Liebert NXC 10 kVA
- Vertiv™ LIFE™ Services

Background

Forno Bonomi produces 90 tons of finished product daily using a totally automated production cycle, from the storage of raw materials, the dosage of mixtures to packaging, boxing and palletizing. It has therefore always tried to operate energy-efficient production facilities, while having to manage constant micro interruptions on the automated manufacturing lines, which have caused some critical issues in the past. The company uses intensive warehousing operations 24/7, 6 days a week, with machines 3 meters high which, if halted for a very short time, can disrupt production or lead to production downtime and product wastage. The company therefore turned to Vertiv technologies to guarantee its operational continuity.

Requirements

Guarantee and safeguard a constant electrical power supply to ensure production continuity to the plant.

Results

- Effective and reliable protection from potential interruptions or fluctuations in the power supply.
- Greater availability of the supply, power and energy efficiency.

The context

Forno Bonomi is an international company experiencing steady growth. In view of the scale of its production, the entire system must be guaranteed perfect continuity of the power supply to avoid interruptions and the resulting disruption to the production chain. In 2002, Forno Bonomi implemented its first Vertiv solution, then Emerson Network Power. This was a UPS-type Liebert Hipulse 800 kVA and a subsequent twin machine for redundancy. Following a careful market analysis, the Verona company again decided to turn to Vertiv in 2015 to update its equipment and deploy new and even more efficient solutions to eliminate the problem of micro interruptions.

The solutions

The solutions implemented by Forno Bonomi are two **UPS Liebert® Trinergy™ Cube 1200 kW**, one **UPS Liebert GXT4™ 6000 VA**, one **UPS Liebert NXC 10 kVA** and **Vertiv™ LIFE™ Services**. These combined solutions protect the production plants from power interruptions and outages and ensure high performance, reliability and energy efficiency.

The UPS Liebert Trinergy Cubes in particular provide a three-phase UPS system that ensures an uninterrupted continual supply of electrical energy in the event of disruptions in the main power supply. This is a high-power modular UPS, consisting of an Input/Output box (an interface for the connection and user interaction) and a maximum total of six connected cores which operate continuously, tolerating temperatures of up to 55° C. With this configuration, the Liebert Trinergy Cube offers the maximum level of power availability and TCO (total cost of ownership), reduced energy consumption and CO₂ emissions.

Liebert GXT4 is actually an online double conversion UPS that can provide a high-quality continuous power supply to the loads connected and with zero transfer time to the battery. This allows Liebert GXT4 to protect any type of IT equipment from power supply problems arising from sudden interruptions, voltage brownouts or fluctuations and interferences caused by power surges or disturbances.

Finally, Liebert NXC, with its high- efficiency double conversion technology without transformer, improves the flexibility and space requirements for the installation.

This UPS solution achieves 96% efficiency in a double conversion and up to 99% in ECO mode, providing protection to users while allowing a TCO reduction and a minimal environmental impact.

The promptness and professionalism of the team of experts throughout the phases of this project have made Vertiv™ a reference partner for Forno Bonomi, who also signed a service agreement for the regular and proactive maintenance of the critical infrastructure.

“Our relationship with Vertiv has proven very successful over the years, and we remain extremely satisfied with their products and services. Our choice was based on the high-performance technologies offered by the company, along with the professionalism and constant attention they dedicated to our pre- and post-sales needs.”

Vertiv LIFE Services is the remote diagnostic service and preventive monitoring that enables Vertiv experts to obtain real-time information required to identify, diagnose and quickly resolve any malfunction using a constant data transfer system from the UPS to the Vertiv service organisation. With Vertiv LIFE Services you have a virtual technician at your side 24/7. The continuous monitoring of all the relevant parameters maximizes performance, reduces the need for on-site maintenance and extends the life cycle of the connected devices.

*“We had to ensure the continuity of our energy supply to our plant, while reducing costs and limiting energy waste,” says **Giorgio Bonomi**, Technical Manager of Forno Bonomi. - “The problem of micro interruptions had become a critical factor in the efficiency of the production chain, especially for a company like ours located in a mountainous area, where even up to 10 micro breaks can occur daily during the winter and summer seasons. The compactness and reliability of the Vertiv UPS was therefore the perfect solution in terms of technological efficiency and savings, especially in the reduction in machine maintenance costs.”*

*“At Vertiv design, we manufacture and supply hardware, software and diagnostic and monitoring services to ensure the mission-critical applications of operational continuity to our customers, optimal performance and growth in step with changing business needs,” says **Stefano Mozzato**, Italy Country Manager at Vertiv. “Like the great architects, we too create the bold and analytical critical infrastructure of the future, which is why call ourselves “continuity architects”: for us, continuity means offering our customers reliable technologies and prompt and accurate service to ensure a greater and more efficient manufacturing performance.”*