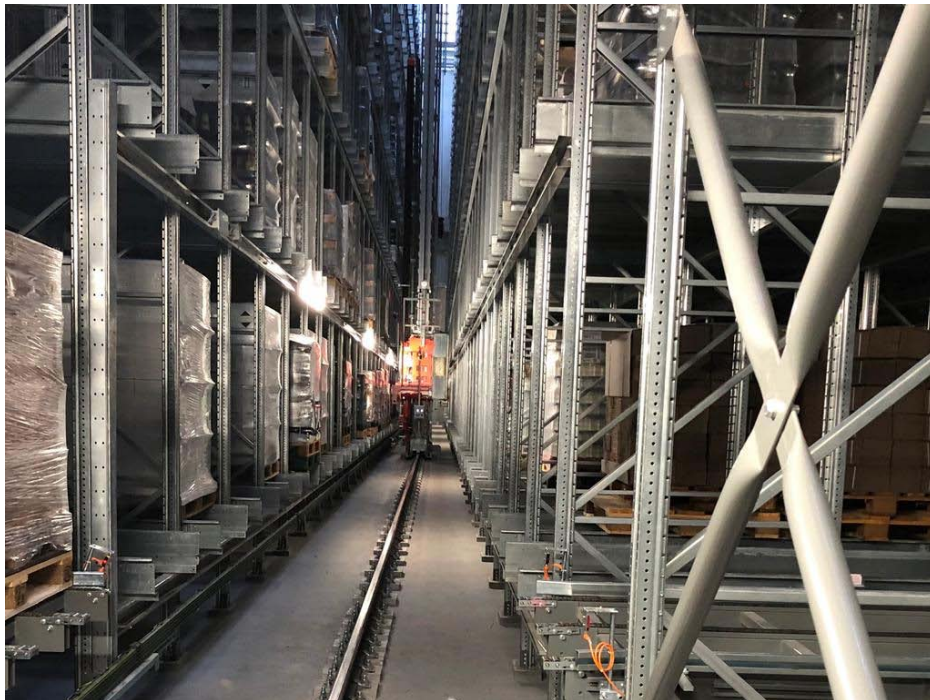


Case studies

DISTILLERIE BONOLLO UMBERTO - TECHNOLOGICAL ADVANCES TO INCREASE QUALITY AND IMPROVE PRODUCTION SYSTEMS



Client: Distillerie Bonollo Umberto
Sector: Grappa and spirits
Location: Veggiano (Padua, Italy)

New space to support business growth

Italian identity, quality and passion are the values that guide the Bonollo family which today, under the guidance of its fourth generation, stands out as a point of reference in the grappa market. Distillerie Bonollo is experiencing significant growth and following the ongoing increase in sales of bottled spirits and liqueurs its current space in the Mestrino packaging facility has become insufficient. This is why the company launched a project to create new space and structures. The project includes the Ferretto Group's innovative automatic pallet racking system equipped with an oxygen reduction fire-fighting system.

Objectives:

- Optimization of space: The storage system makes the best use of the available space and improves the storage capacity according to the quantities involved. This is possible thanks to the dynamic depth mapping of the channels of the storage system central blocks
- Integration with production processes: The position of outgoing raw materials and that of incoming finished products were optimized for the bottling lines

Solution:

- Self-supporting automatic storage system with a total surface area of 3,000 square meters for pallets serving both the production and the shipping department
- Fully automated picking and placing of ULs through 3 cable satellite stacker cranes
- Anti-seismic multi-depth racking on 8 load levels
- A circuit with 6 Fast Ring steering shuttles for the handling of inbound and outbound flows of raw materials and finished products

Technical characteristics:

- The channels of the storage system's central blocks can be dynamically mapped in depth in order to optimize the storage capacity depending on the characteristics of the products
- The picking of unit loads from the shipment line was designed to be carried out from a ground level picking station that enables the pallets to be lifted from both sides (800 and 1,200) with an electric pallet truck, which guarantees faster shipping operations and greater flexibility
- Given the type of goods stored, the storage system was designed with an oxygen reduction fire-fighting system

Added value:

- Storage space optimization
- Improved and faster order preparation process
- Proper product storage conditions

The storage system in figures:

Gross area	3,040 m ²
Unit loads:	Europallet
UL dimensions (mm):	800 x 1,200 x H 1,600/1,900/2,000/2,600
Total storage capacity:	11,088 ULs
Shelving height (m):	22 m
Load levels:	8
Type and number of stacker cranes:	3 cable satellite stacker cranes





