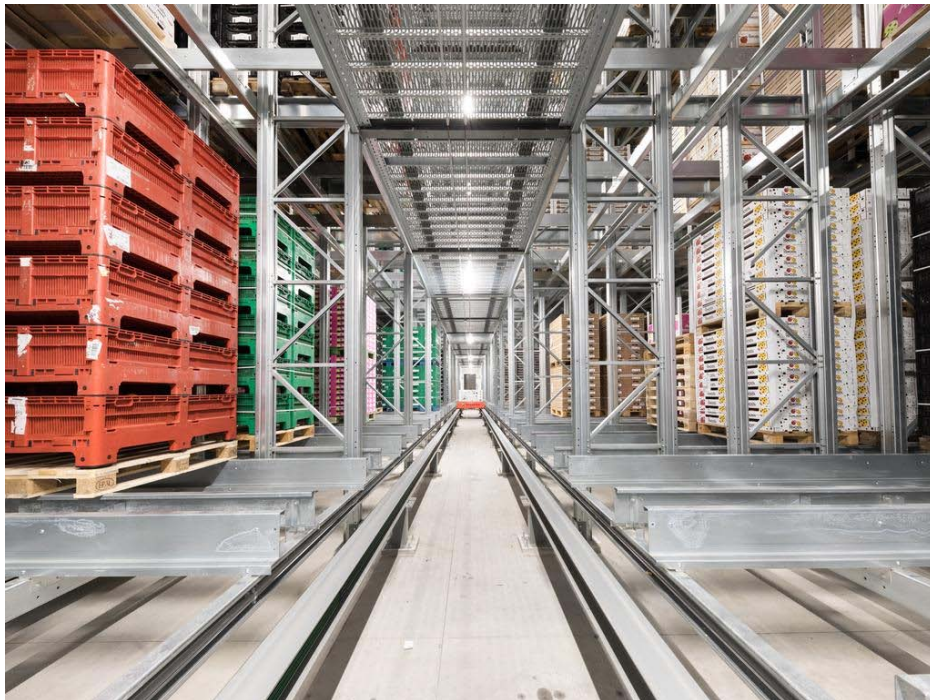


Case studies

TEXEL COOPERATIVA SOCIETÀ AGRICOLA TRANSFORMS ITS WAREHOUSE INTO AN INDUSTRY 4.0 WAREHOUSE



Customer: Texel Cooperativa Società Agricola

Sector: Food - Apple distributor

Location: Naturno (BZ) - Italy

Texel's needs

Established in 1977, Texel Cooperativa Società Agricola is a member company of the VIP Consortium (Association of Fruit and Vegetable Cooperatives of Val Venosta) which produces about 6,900 tons of apples, pears and apricots a year by its 325 members. Until the recent past the company **managed its warehouse "manually"**: pallets were stored on the ground and **handled by forklifts** including for the loading of the trucks. In particular, this system made the management of flows difficult and unsafe, both for personnel and for goods.

Objectives:

- Revise the overall operational management by automating processes as much as possible
- Reorganize the spaces used for the storage of apples ready for shipment
- Improve inventory control
- Increase personnel safety by minimizing handling with forklifts
- Speed up order preparation so as to reduce the Time To Market

Solution:

- Automatic self-supporting storage system in a +3°C temperature controlled cold room for the storage of products ready for shipment
- Multi-depth seismic-resistant pallet racking made up of 4 load levels. Pallet picking and placing managed by 8 shuttles
- No. 3 lifts serving the storage system at the entrance and no. 10 lowerers serving the truck loading docks
- Circuit consisting of 6 Fast-Ring steering shuttles to convey the pallets to the lowerers serving the loading docks

Technical features:

- To better manage load units of different sizes, the system uses sub-pallets (slave pallets) to be coupled to certain pallets at the entrance of the storage system which are decoupled before shipping
- In order to guarantee high versatility, modular belt conveyors were chosen for use

Added value:

- Increased efficiency and safety of personnel through the introduction of the goods-to-person logic
- Better organization of space both in the warehouse and in the shipping area
- Optimization of both order management and the entire production process. Loading times on trucks were halved, compared to the previous management process
- Greater control of stock, full traceability and reduction of errors thanks to the management of inputs and outputs through the Ferretto Group's WMS interconnected to the company ERP

The storage systems in figures:

Total surface:	932 square meters
Building height:	16 meters
Unit load:	Europallet
Unit load dimensions (mm):	800/1,000 x 1,200 x h 2,300
Maximum storage capacity:	1,242 pallets
Type and number of stacker cranes:	no. 8 "supersatellite" shuttles







