

Case studies

ISB INDUSTRIES



Sector: Industrial components

Location: Rubiera - Reggio Emilia

Automation by Ferretto Group for ISB's 4.0 logistics hub

The automated storage system designed and built by Ferretto Group for the Emilian company, able to store up to 56,000 pallets and manage 70,000 codes, is an example of intelligent logistics based on integration, traceability and scalability.

Thanks to continuous investment in the creation of a solid distribution network in Italy and abroad, ISB Industries is a global leader in the supply of bearings and industrial automation components for customers from a wide range of sectors pointing to industry 4.0.

With the aim to keep growing and offer national and international customers more efficient logistics services, the company has made significant investments in the last two years, including the creation of a strategic logistic hub in Rubiera, Emilia.

Objectives

- Provide an automated storage solution aimed at improving the management and distribution of the finished product
- Improve traceability and management of both inbound (production area) and outbound (shipping area) products
- Support the company's growth prospects

Solution

- Automatic self standing storage system integrating production and shipment with a solid storage solution for the finished product
- No. 7 stacker cranes equipped with forklift systems
- Single and double depth shelving on 20 load levels
- Both inbound and outbound loads are served by a perimeter circuit with 5 Fast Ring steering shuttles
- Anthropomorphic robot for load units depalletization

Technical characteristics

- The entire plant, consisting of 1,000 tons of steel, was designed according to anti-seismic regulations

Value added

- Improved goods management and traceability
- Increased storage capacity
- Improved order management
- Full customer satisfaction, as the project has shown to be consistent with the company's growth expectations

The storage system in numbers

Total area	2,510 m ²
Load unit	euro-pallet 800x1,200-800x600 mm
Total capacity	56,000 pallets
Storage system height	25 meters
Load levels	20
Type and number of stacker cranes	7 stacker cranes with forks
Shuttles	5 Fast Ring handling shuttles







