

CASE HISTORY

Coca-Cola HBC Czech Republic and Slovakia

Prague, Czech Republic

Beverage



The company

Coca-Cola HBC Czech Republic and Slovakia is a member of the Coca-Cola HBC Group (Hellenic Bottling Company), one of the world's largest Coca-Cola bottlers, which operates in 28 countries in Europe, Asia, and Africa and employs nearly 1,100 people.

Since 2018, Coca-Cola HBC Czech Republic and Slovakia has also been distributing the brands of the group Gruppo Campari and brands of the group Edrington.

The company operates a bottling plant in Prague-Kyje and a number of sales and distribution centres for the delivery of products to the business partners.



Issues and targets

Following an increase in production volumes, it became necessary to expand the logistics capacity and centralise storage and shipping activities in a single centre, replacing the previous external warehouses.

The Prague logistics centre serves the markets of the Czech Republic, Slovakia and Poland. Given the particular urban planning zone of the Prague plant, the solution had to comply with precise building and landscape restrictions, so as not to have an excessive impact on the surrounding built-up area.





The solution and the results

System Logistics was responsible for the design and installation of a new automated storage system that could meet functionality and flow requirements, while at the same time fully complying with the building constraints imposed by the customer.

The materials coming from the Krones production lines are transported via conveyor belts to the automatic warehouse, where 9 stacker cranes with a maximum height of 18 metres operate inside a traditional building, with a total capacity of 21,168 pallet slots.

2 SVL loops, with 14 and 8 shuttles respectively, connect the production to the warehouse, and the warehouse to the shipping lines. These operations are carried out on two levels, connected by 2 elevators.

The pallets containing empty bottles are stored externally and, if necessary, are retrieved by means of an elevator that takes them to the production and picking areas.



The system is capable of managing just-in-time shipments, regulating the convergence of the flow of complete pallets with that of mixed pallets (customer orders), which are set up in

advance in a special manual area with direct replenishment from the automatic warehouse and then introduced into the system while awaiting the start of the shipment. This allows the warehouse to sequence the loads towards the tipping stations, thereby optimising shipments to distributors and end customers.

Highlights

The seamless integration of the new warehouse with the new Krones bottling lines has made the site highly functional, and fully able to meet customers' needs.



Technical Features

- › 9 double-depth stacker cranes
- › 14 SVL shuttles 1st floor
- › 8 SVL shuttles ground floor (shipping) expandable adding SVL shuttles with minimum downtime
- › 271 pallets/h in
- › 290 pallets/h out total flows
- › 21,168 pallet slots
- › 2 Double-pallet lifts
- › 1 Single pallet lift