

Industry reference
Food

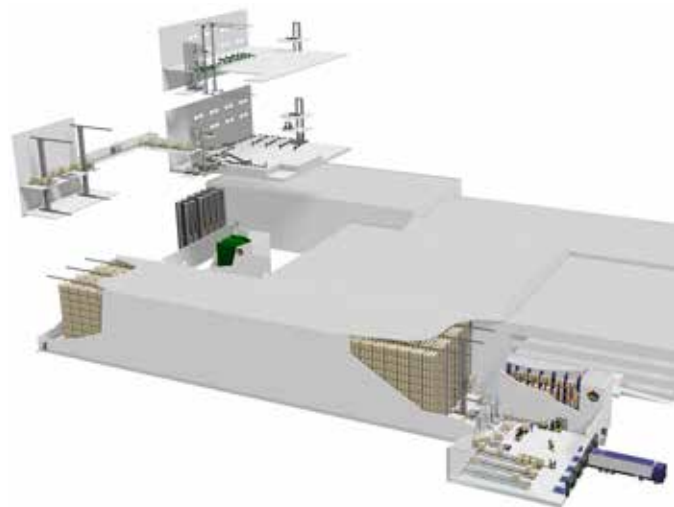


The customer

Hügli Holding AG, an international Swiss food company with 1,350 employees, and the company Klinkhammer have built and put into operation, at the Radolfzell location, an automated small-parts and high-bay warehouse in silo-type and a cold storage. Hügli Nahrungsmittel GmbH has invested about 30 million euros in the expansion of the Radolfzell location in Germany. According to the motto “culinary expertise, creativity and speed”, the products of Hügli range from antipasti, bouillons or burgers to ready to serve meals up to sports nutrition, soups or seasonings.

The requirements

The focus of the new production building with connected warehouse for the mixing of semi-finished products is on the process-optimized conveyor connections between the different warehouses and the mixing facility and order picking. The aim is to optimize material flows for a fast production supply and to shorten delivery times.





Filling of containers - workstations for manual filling

The solution

The new construction in which Klinkhammer Group has implemented the intralogistics comprises the mixing facility and a connected automated high-bay warehouse with more than 11,000 storage locations for raw materials, packaging and finished products. A two-aisle automated container warehouse (ASPS) comprising about 8,800 containers is also connected to production by conveyor technology. The container warehouse is used for minimum quantities and as an order combination buffer for premixed batches. Comprising the conveyor connection of 10 production workplaces, the raw material silos, the cold warehouse with 300 pallet bays and 6 gravity dispatch lanes, one of the most modern production plants for dry mixed products in Europe has been built.

Advantages for the customer

The system's distinctive feature is the optimization of the complex material flows. The conveyor connection of the 3 warehouses, the raw material silos and the production and order picking areas located on 3 levels significantly shortens the distances and increases the process safety. The automation also ensures the required performance and quality. Until now, 30,000 tons annually have been

produced in three-shift operation. Now, a capacity of 40,000 tons in two-shift operation is available. A safe charging of the mixing facility with different raw materials and premixed batches, the weighing and filling into stainless steel containers, the return of the goods to the warehouse, as well as the empties management are complex processes which are perfectly coordinated in the IT infrastructure. The automation and digitization set new standards in quality assurance and increase the efficiency of the processes.

Data and facts

- 3-aisle automated high-bay warehouse, 11,000 pallet storage locations
- 2-aisle automated small-parts warehouse for 8,800 containers
- Manual cold storage, 300 pallet storage locations
- 10 production workplaces, connected by conveyors: filling, transferring, weighing, mixing
- Klinkhammer material flow calculator and system visualization
- 6 gravity loading lanes for pallets
- 5 loading ramps



Workstations for weighing of bouillons, soups or seasonings



Automated small-parts warehouse for 8,800 containers



11,000 pallet storage locations in the automated high-bay warehouse