

## Press release

### **High-bay warehouse for 25.000 Euro pallets with conveyor technology for Biohort.**

Biohort GmbH from Neufelden (Austria) is the European market leader in metal storage solutions. The product portfolio includes high-quality tool sheds, practical outdoor storage boxes and useful items for the garden, such as raised beds. Biohort products are manufactured 100% in Austria by around 400 employees. For years Biohort has been growing continuously in the double-digit percentage range. To sustain this growth, a new main plant including production and logistics is built. In order to keep the built-up area as small and efficient as possible, a fully automated high-bay warehouse (HRL) was also chosen. Planning and turnkey delivery of the 4-aisle high-bay warehouse for the storage of finished goods, semi-finished products, raw materials and consumables was carried out by HÖRMANN Intralogistics. The same applies to the connected pallet conveyor system for production and order picking. The new plant is to become the most modern thin sheet processing plant in Austria.

### **Transport and storage on a wide variety of load units**

The new high-bay warehouse provides space for around 25,000 Euro pallet units. The challenge of the project, however, is that the goods to be stored and transported often exceed the Euro pallet dimensions. For example, Euro pallets with overhang, double Euro pallets, various small parts containers and cardboard boxes on Euro pallets, Euro meshed boxes and various customer pallets also have to be handled. Therefore, the maximum dimensions specified are 3,450 x 1,300 x 1,350 mm (L x W x H). The maximum weight per conveyor unit is 1.200 kg.

### **Flexible storage compartment design, high system redundancy and simple expansion options**

The new, automatic high-bay warehouse serves both as an incoming goods warehouse for production supplies, as well as for semi-finished products and for storing finished products. Customer orders are picked in a manually operated area, where replenishment is served by the high-bay warehouse.

Addressing these material flow tasks, the conveyor technology solution offered by HÖRMANN Intralogistics affiliate HÖRMANN Klatt Conveyors connects both incoming goods and production, as well as the order picking areas on the ground floor and first floor to the new high-bay warehouse. The connection is made via an infeed station, transverse transfer car, NIO pick-up station and five pick-up stations each.

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The 2-3 deep storage compartments in the warehouse are universally designed to ensure maximum variability in the choice of storage locations with regard to load formats. The four 2-mast storage and retrieval machines (SRM) with 3-prong telescopic forks and fine compartment positioning as well as two vertical conveyors operate redundantly. All storage areas, including the storage pre-zone and the conveyor system, are designed for further growth with high performance reserves.

The new high-bay warehouse system at Biohort is designed for a storage and retrieval capacity of 70 load units per hour each in two-shift operation.

As the general contractor, HÖRMANN Intralogistics supplied the racking and platform steel construction, conveyor technology, stacker cranes and HiLIS PLC controls technology for stacker cranes and conveyor technology. Warehouse management is carried out by the HÖRMANN intra Logistics System HiLIS, communicating with the Biohort ERP system. The HiLIS system visualization supports the operation and control of the entire system with simple, ergonomically designed GUIs in real time.

### Facts Biohort high bay warehouse

- 4-aisle high-bay warehouse 121 x 35 x 33m (L x W x H)
- 4 aisle-bound stacker cranes in 2-mast design with 3-prong telescopic forks for 2-3 deep storage
- 2 vertical conveyors
- 70 pallets in and out per hour
- Connecting conveyor technology
- HiLIS WMS with ERP interface
- HiLIS controls technology
- HiLIS plant visualization

The new high-bay warehouse for Biohort in St. Martin went into operation in March 2022.

[www.hoermann-intralogistics.com](http://www.hoermann-intralogistics.com), April 2023

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