



2019

CASE STUDY | RETAIL, SERVICE | FULL-SERVICE PROVIDER

# HABERKORN

AUSTRIA



# HIGH-BAY WAREHOUSES FOR INCREASED EFFICIENCY

## TWO HIGH-BAY WAREHOUSES

## ONE FULL-SERVICE PROVIDER

**The technical distributor Haberkorn has recognized that its logistics center at the Wolfurt site (which has grown steadily over the years) has reached its limits – not only in terms of space, but also due to increasing complexity. The ultimate objective: to increase efficiency in intralogistics. The end result is a spacious warehouse complex with two separate high-bay warehouses for boxes and pallets.**

In order to meet its needs in-house and the requirements of its customers, Haberkorn has taken a key step. With business development growing steadily in recent years, the site of the company headquarters in Wolfurt has reached the limits of its capacity. Individual customer requirements are becoming

increasingly specific, and the handling of goods ever more complex. To overcome these challenges, the warehouse must not only simplify the work steps, but above all massively speed them up – something that can only succeed with a fully automated high-bay warehouse.

### Warehouse for increased efficiency

The technical distributor has recognized that the only possible solution is to invest in intralogistics expansion. We sit down together with Haberkorn and go through the processes step by step. It is important for us to understand the wishes of our customers, because only then can we propose the optimum solution. Following a lengthy planning phase, the best solution

## HABERKORN

### Haberkorn GmbH

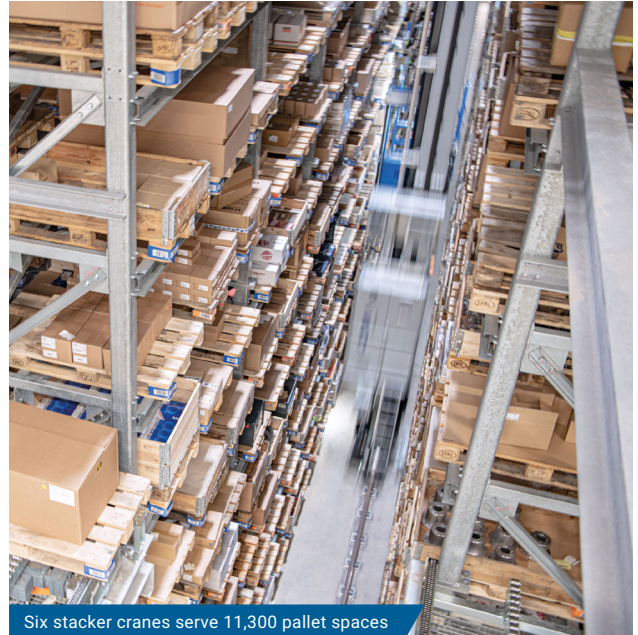
Hohe Brücke  
6961 Wolfurt, Austria  
haberkorn.com

**Founded:** 1932

**Employees:** over 2.300

**Sites:** 30 in Austria, Germany, Eastern Europe and Switzerland

**Portfolio:** B2B dealer for technical products, industrial safety, and lubricants with the target groups industry and construction.



Six stacker cranes serve 11,300 pallet spaces

is finally formulated: expansion of the existing logistics to include a spacious warehouse complex with two separate high-bay warehouses: one for pallets and one for boxes. The pallet warehouse with around 11,300 storage locations is operated by six aisle-bound stacker cranes. The warehouse for boxes also provides space for 64,000 boxes with ten stacker cranes. In order to adequately serve the two new high-bay warehouses as well as the existing storage systems, the





Conveyor system for 30 kg bins

conveyor technology must also be up to the job: 18 goods-in stations, 16 picking stations, 20 packing stations, and 9 vertical conveyors meet these requirements.



As a full-service provider for internal material flow processes, LTW Intralogistics has thoroughly impressed us with this project by providing outstanding quality, reliable implementation, and flawless service. We are proud of the joint result and would therefore like to thank all those

involved in the project. Christoph Winder, Haberkorn Management Board

### The implementation

The processes within the warehouse have not only become more extensive, but also more complex. As such, the greatest challenge lay in mapping all the necessary processes and planning the perfect material flow.

Something that made things even more complicated was the extensive coordination between the existing software from an external supplier and the LTW components.

Close collaboration was required here to implement complex process changes and upgrade the existing software accordingly. Of course, it helped considerably that our company head-



Conveyor system as a connecting element

quarters lie just a stone's throw away from Haberkorn, and that we have a long-standing partnership – we too obtain our technical equipment from one of Europe's largest distributor.

**More Infos at:**

[LTW.AT/en/references/detail/haberkorn](https://www.ltw.at/en/references/detail/haberkorn)



# OUTLINE OF THE PROJECT



## HIGH-BAY WAREHOUSE

### Pallets

- Pallet high-bay warehouse
- Design rack supp. building (Silo) L x W x H: 61 x 28 x 30 m
- 6 rack aisles
- Single deep storage
- Approx. 11,300 pallet spaces
- Maximum payload: 1,000 kg
- Temperature range: +5 to +35 °C

### STACKER CRANES PALLET

- 6 aisle-bound stacker cranes: Type LTW I-1027 TG/R/A
- Rail system: 340 m, Type S41
- Driving speed: 180 m/min
- Lifting speed: 60 m/min
- Driving acceleration: 0.60 m/s<sup>2</sup>
- Lifting acceleration: 0.60 m/s<sup>2</sup>
- Performance: 39 CC / h / crane

### CONVEYOR SYSTEM

Pallet and bin conveyor system on several levels included:

- 18 pcs. Inbound stations
- 16 pcs. Order picking stations
- 20 pcs. Packing stations
- 9 pcs. Vertical lifts



## HIGH-BAY WAREHOUSE

### Boxes

- Box high-bay warehouse
- Design rack supp. building (Silo) L x W x H: 61 x 13 x 30 m
- 10 rack aisles
- Single deep storage
- Approx. 64,000 pallet spaces
- Maximum payload: 30 kg
- Temperature range: +5 to +35 °C

### STACKER CRANES BINS

- 10 aisle-bound stacker cranes: Type Mustang R
- Rail system: 570 m, Type S41
- Driving speed: 360 m/min
- Lifting speed: 180 m/min
- Driving acceleration: 3.00 m/s<sup>2</sup>
- Lifting acceleration: 1.61 m/s<sup>2</sup>
- Performance: 128 CC / h / crane