

DHL Co-Location Hamburg Allermöhe

Company name: DHL Group



In response to ever-increasing volume of shipments, DHL developed a number of strategies to improve its existing facilities' sorting capacity. The group built a complementary second hub to its parcel sorting center in Hamburg Allermöhe. Körber supplied extensive sorting technology and the corresponding intelligent control and coding software for this new center as well as for the connection to the existing center.

The customer

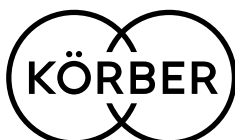
DHL Group is the world's leading logistic company. The Group connects people and markets and is an enabler of global trade. It aspires to be the first choice for customers, employees and investors worldwide. DHL offers a comprehensive range of parcel, express, freight transport and supply chain management services as well as e-commerce logistics solutions.

The project

The objectives

The goal of the project was to future-proof an existing parcel center so that its sorting capacity can cope with parcel volume growth.

DHL is striving to ensure that its customers can continue to count on reliable, high-quality deliveries in the future.



The starting point

DHL operates 40 parcel centers in Germany.

- We built 33 of them between 1994 – 1999
- All of them have the familiar U-shaped structure
- In response to rising shipping volumes, DHL developed strategies to increase sorting capacity in and around existing locations. One of these is the co-location series, with Hamburg as the first center

The challenges

- Finding the most powerful technical solution to “connect to the existing parcel center” on a brownfield site at an attractive price
- Developing various layout solutions and multiple mock-ups to gain customer confidence and demonstrate our quality and performance
- Integrate the equipment for connecting the co-location in the existing center
- Realizing the project during operations, as in an “open heart surgery”
- Creating a compact timeline so as not to break our client’s investment budget

The solution

We began with a collaborative system approach, working with DHL to come up with various concepts in the pre-tender phase.

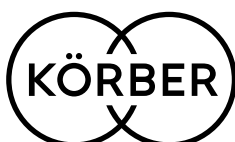


Our IT infrastructure, combined with our knowledge and experience of the existing parcel center, allowed us to come up with the best ideas.

We have a deep understanding of DHL’s operations and were able to develop the right solutions. This allowed us to think ahead for our customer and act as a trusted partner to them.

The driving force behind the creation and implementation of the ideal solution was our motivated team.

Their expertise, dedication to excellence, and constant presence led to the successful completion of the project.





Features and benefits

In less than a year, we successfully equipped the new sorting hall with extensive parcel sorting technology and connected it to the existing center.

The bridge contains four conveyor sections on two levels. This connecting section can also be used as a buffer.

The scope of delivery includes:

- 2 VarioSort cross-belt sorters with 120 sorting destinations
- 6 Double-in high-speed inductions
- 8 High-speed inductions
- 4 conveyor lines to connect the existing parcel center

The following third-party products were also integrated:

- 2 five-side scanners
- 20 one-side scanners
- 3 six-side scanners
- 20 high-speed scales
- 72 telescopic conveyors (22 for unloading, 50 for loading)
- 116 chutes
- 6,500 m² steelworks platform

In addition, comprehensive control and coding software, including a process control system, was installed in the co-location and integrated into the overall system.

The existing center and the co-location can be operated together or separately.

The Results

The sorting center in Hamburg has been complemented by the addition of a second sorting hall in the immediate vicinity. Körber supplied comprehensive sorting technology and appropriate intelligent control and coding software for this 9,200-square-meter expansion and connected it to the existing center.

The heart of the system is the high-performance VarioSort double-deck cross-belt sorter, which sorts parcels at a speed of 2.6 meters per second.

The new facility has a high throughput of up to 23,000 parcels per hour.

