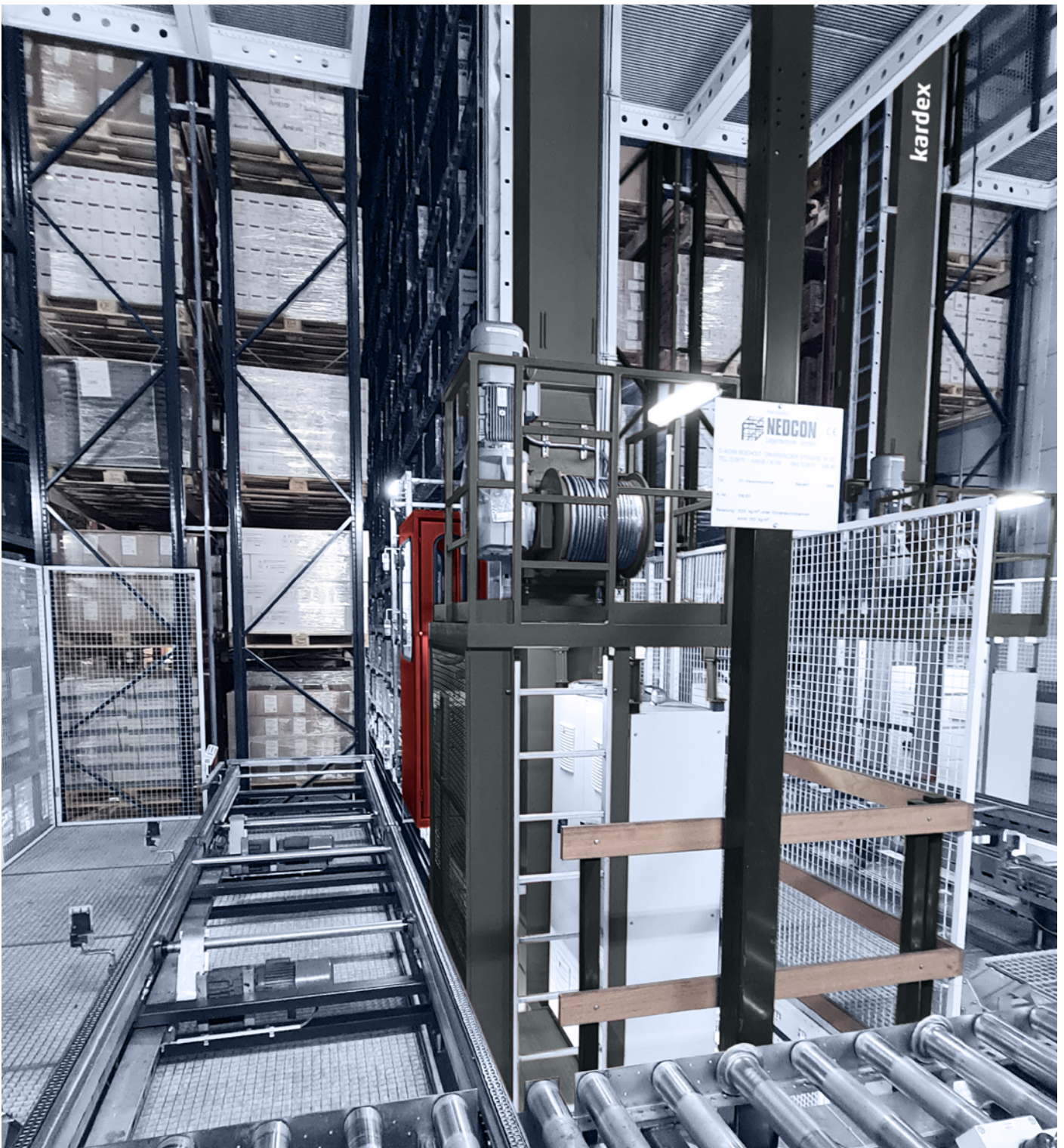
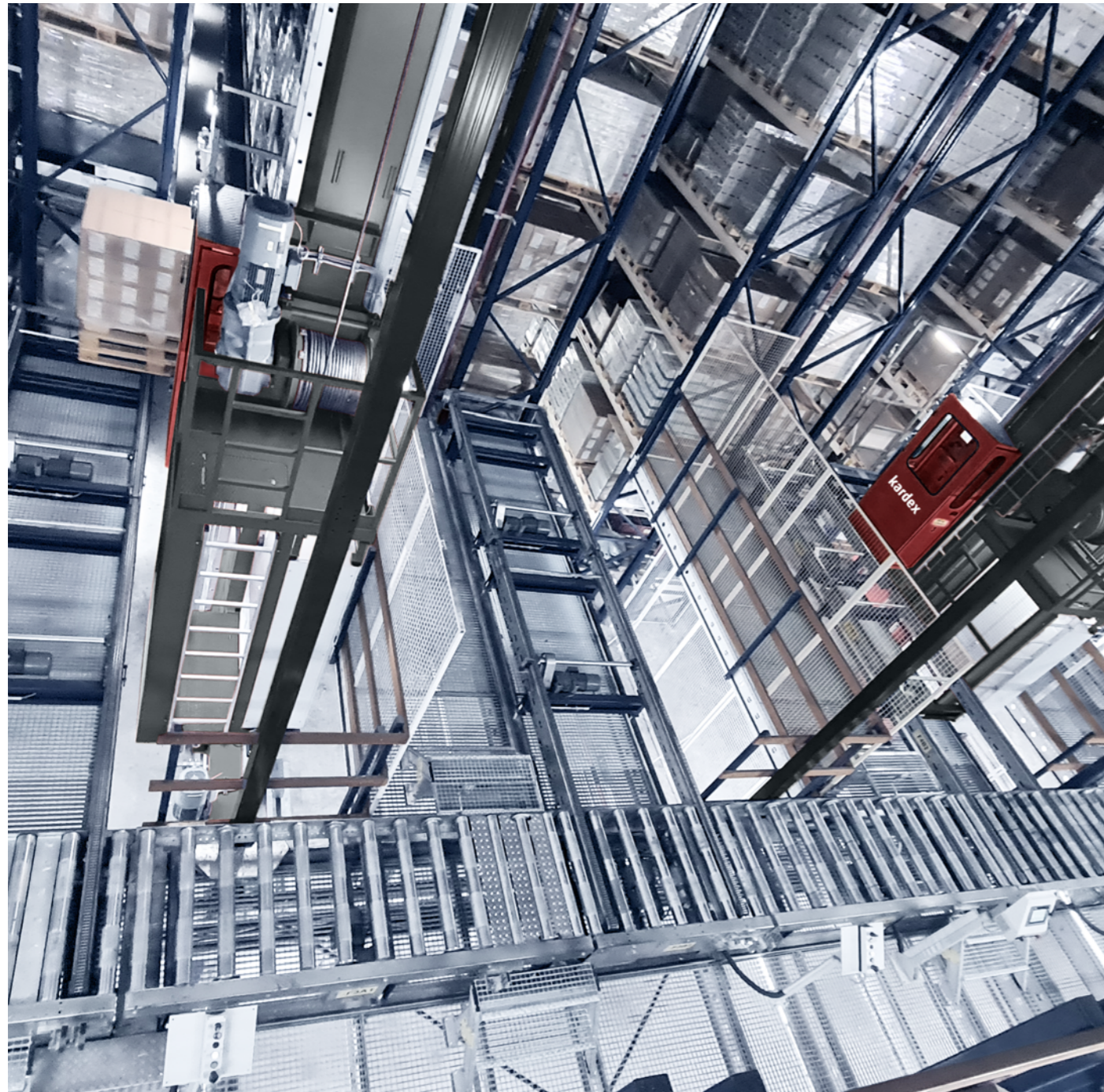


Case Study

# Brand New in just Six Months







# High availability and fit for the future

## Customer and challenge

In order to ensure optimal availability of its high-bay warehouse, the Nagel Group food logistics specialists opted to refurbish its facility. Eight stacker cranes were due for replacement as well as the conveying system and control technology which, due to discontinued components, could no longer rely on spare parts.

As the centerpiece of the logistics center in Baden-Wuerttemberg, it was imperative that the high-bay warehouse remain operational during the entire refurbishment phase.

## Solution

All the project measures were completed in less than six months. The refurbishment of the six stacker cranes of type Kardex MSingle included the control technology of the on-board control box with the frequency converter and the control panel. The scope also included switching the data and coupling the stacker cranes to ethernet with Profinet. The drive components in the chassis and lift units were also refurbished. The positioning systems with an overload function were replaced, as was the access door switch with an emergency limit switch for the chassis, lift unit and the conductor lines. The control technology on the two stacker cranes (supplied by a third-party manufacturer) were refurbished. For the conveying technology itself, Kardex refurbished the programmable logic controllers and the distributed peripherals. Lastly, the team replaced the drive components on two transverse shuttles.

## Case at a glance

### Refurbished during ongoing operations

Kardex Mlog refurbished Kraftverkehr Nagel's high-bay warehouse at the company's Reichenbach location in Germany during ongoing operations. As part of the project, Kardex Mlog refurbished the conveying technology and eight stacker cranes, including two from third-party manufacturers. The focus was on the replacement of discontinued components and the installation of new control technology.

6 months  
refurbishment  
time

Ensuring  
availability

Refurbish-  
ment  
during ongoing  
operations





### Scope of delivery



Refurbishment of eight stacker cranes, two of which were supplied by a third-party manufacturer



Upgrade of the conveying technology



Replacement of the programmable logic controls