

## Branch Reference Cosmetics



### RETROFIT IN THE CHANNEL WAREHOUSE

#### The Customer

For more than 50 years, the family business Apotheker Walter Bouhon GmbH has been producing cosmetic products under its frei öl brand. They are available both in pharmacies and, with a selected range, in drugstores.

#### The Requirements

Retrofit: As the system's control technology and software were over 20 years old, the control components and PLC programming of the automated pallet warehouse and pallet conveyor technology were replaced. The moving control cabinet of the storage and retrieval crane was completely modernized, as was the system's safety concept. The material flow control and storage location management system was also equipped with the latest KlinkWARE 11 software generation. The retrofit brought the system up to the latest state of the art and increased overall productivity.

#### Klinkhammer Intralogistics GmbH

Wiesbadener Straße 13 · 90427 Nuremberg · Germany  
Phone +49 911 93064 0 · Fax +49 911 93064 50  
info@klinkhammer.com · www.klinkhammer.com



## The Solution

By renewing the hardware, upgrading the software and modernizing the system visualization, all processes were once again reviewed, streamlined and new processes were integrated. Spare parts are available again, system availability has been improved and modern interfaces have been installed.

A semi-automated incoming goods area offers space for 80 pallet storage locations on staging lanes. The lanes are served by a cross-travel carriage with a satellite vehicle. This is where the spot checks are carried out and the goods are stored in the fully automated, single-aisle pallet channel warehouse. This storage technology is characterized by a particularly high storage density. Up to 15 pallets can be stored in a row, with a total capacity of 2,100 pallet spaces. Order consolidation takes place continuously during dispatch. The tours are provided semi-automatically. A shipping buffer line provides a high degree of flexibility.



Automatic channel storage



Storage of up to 15 pallets in a row



Single-aisle channel storage system for 2,100 pallet spaces



Outgoing goods buffer



Goods receiving area with staging lanes for 80 pallet spaces