



**liftNAVIGATION and  
warehouseNAVIGATION,  
Wahl GmbH & Co. KG, Bielefeld.**  
**Process reliability and  
easy system integration.**

**JUNGHEINRICH**

**Project:**

Wahl GmbH & Co. KG, Bielefeld, Germany

**Industry:**

Forwarder and logistics service provider

**Task:**

Provision of Jungheinrich solutions for the new high rack warehouse

**Project duration:**

12.2012 – 05.2013

**Services:**

- Reach truck ETV with liftNAVIGATION
- VNA truck EKX with warehouseNAVIGATION
- Logistics Interface with connection to the industrial trucks
- Radio data terminals
- Racking and conveyor systems

**Most important results:**

- Very high level of process reliability
- Reduction of damage to goods and racking
- Minimal effort for integration into IT system

**Great flexibility for industry and trade**

Since 1931, the company Wahl & Co has been operating as forwarder and logistics service provider in Bielefeld. The family business provides logistics services for industry and trade from one source. Flexibility, diversity and quality awareness are the number one priorities of the North Rhine-Westphalian company.

**Jungheinrich driver assistance systems  
in the new warehouse**

At the location in Bielefeld, Wahl & Co decided to implement a new high rack warehouse with 15,000 pallet locations and a set-down height of 16,500 mm. In order to meet the prevailing requirements for an efficient warehouse operation, the company chose industrial trucks and assistance systems by Jungheinrich. The middle-ware Logistics Interface controls the VNA trucks' warehouseNAVIGATION as well as the semi-automatic height pre-selection liftNAVIGATION for reach trucks.

**Simple integration into the IT system**

As an experienced provider of intralogistics solutions, Jungheinrich was able to live up to Wahl & Co's expectations. Not only the VNA and reach trucks and their high quality contributed to the decision of the company. The effortless integration into the existing IT system also played a major role, since the same connection way could be used for the link to the vehicles. Accordingly, the adaptation effort for the customer's IT was reduced to a minimum.

## The requirement

### Smooth process cycle

In order to meet the current requirements as a logistics service provider as quickly and flexibly as possible, a smooth process cycle within the warehouse is of crucial importance to Wahl & Co. Therefore, the processes from ingoing to outgoing goods in the high rack warehouse have to be perfectly harmonized, while drivers should receive the best possible support to prevent potential errors in advance. In addition, Wahl & Co wished to connect the industrial trucks to their existing Warehouse Management System (WMS).

## The solution

### Jungheinrich industrial trucks with assistance systems and IT connection

Following the analysis of the requirements, racks, conveyor systems and industrial trucks including assistance systems as well as radio data terminals from Jungheinrich were chosen. For the task of transporting goods from the conveyor system to the P&D station, Wahl & Co settled on a reach truck ETV 214 with the semi-automatic height pre-selection liftNAVIGATION. Upon delivering the goods to the P&D station, the driver only needs to scan the barcode on the rack. Subsequently, the WMS sends out an order, which is translated for the industrial truck by the Logistics Interface. Now, the driver can see the destination on the radio data terminal, while the truck simultaneously receives the correct lift height. At the mere push of the control lever by the operator, the forks will stop semi-automatically at the correct height. Thanks to liftNAVIGATION, rack damages as well as storage and retrieval operations at the wrong height belong to the past. In addition, Jungheinrich also supplied two VNA trucks of type EKX 515 including warehouseNAVIGATION, which are able to drive at full speed owing to the good condition of the floor. With the assistance system warehouseNAVIGATION in narrow aisles, the WMS sends an order via the Logistics

Interface to the vehicle's control system. To store or retrieve goods, the driver only needs to accelerate – the truck already knows where to go. Since search and correction rides are eliminated this way, efficiency is increased. Moreover, finished orders are automatically transmitted to the WMS via the Logistics Interface. As a result, the target position does no longer need to be scanned, paving the way to a label free very narrow aisle.

## Customer statement

### Process reliability and simple integration

"Starting with the pick-up of the pallet at the conveyor system through to its storage in the high rack warehouse, our drivers are supported perfectly by the assistance systems from Jungheinrich. Up until now, we have benefited from high process reliability and throughput", states Wahl & Co's business manager Jörn Wahl-Schwentker. "Furthermore, the simple integration of the trucks into our Warehouse Management System was very convincing. The adaptation only cost us little effort."



High rack warehouse with 15,000 pallet locations, Wahl GmbH & Co. KG, Bielefeld, Germany.

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