

## Branch Reference

### Timber Industry



#### **The Customer**

JELD-WEN Door Solutions is part of the JELD-WEN group, the worldwide leading supplier of doors and windows. As leading company group for the manufacture and distribution of doors throughout Europe, JELD-WEN Door Solutions offers a country-specific, extensive portfolio of internal and external doors. The product program comprises standard products for do-it-yourselfers, high-quality trend and design doors as well as technical doors meeting highest requirements in the field of fire-, smoke-, noise- or radiation protection or security in the commercial sector. In Germany, JELD-WEN has more than 900 employees working at four sites. All over Europe, JELD-WEN Door Solutions has more than 30 production- and distribution sites for doors and door frames with more than 6,000 employees in total.

#### **The Requirements**

With the 5plus-concept, JELD-WEN has set new standards in the door industry with regard to delivery speed and diversity of variants. Besides the new production- and storage/warehouse control, a prerequisite for this was a new platform warehouse. More than 50,000 internal doors can be stored in the new high-bay warehouse featuring 2 aisles.



**JELD-WEN**  
DOOR SOLUTIONS

#### **Klinkhammer Intralogistics GmbH**

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Stacker crane with INTEGER (stack handling and picking of individual doors)

### **The Solution**

A crossways transfer car transports the platform doors leaving the production unmixed to the transfer station in front of the high-bay warehouse. Then the DC21 warehouse management system of Klinkhammer performs a plausibility check. Once the doors have been registered, they are taken over by the conveyor. Following a second check, the goods to be conveyed are transported to the i-point (initialization point). Here, each single door is scanned and handed over to a crossways transfer car which then transports the door stack to the high-bay warehouse. Subsequently, the doors are handed over to the specifically designed, integrated handling-/stacker crane named INTEGER. The stacker crane type INTEGER then travels to the single article locations according to the order sequence list and then picks the predefined quantity of doors fully automatically. Stock removal is then followed by the automated order labelling.

### **Advantages for the Customer**

- Minimization of stock and buffer zones
- High process quality
- No damage through multiple manual handling
- Ergonomic solution replaces workplace with hard physical work
- Dynamic storage
- Automatic article sorting
- Automated storage location consolidation

### **Data and Facts**

- Silo-type high-bay warehouse (2,276 pallet locations; around 72 x 25 x 16m / L x H x W)
- 2 stacker cranes type INTEGER (integrated handling-/stacker crane)
- 1 crossways transfer car and various conveyors
- 1 labelling- and scanner station
- Materials flow- and warehouse management computer
- PLC incl. system visualization

Automatic door scanning and labelling



Special gripper for doors (Integer)



Automatic labelling station

