



## Ergonomical and error-free picking at ABUS

### Increase of efficiency and reduction of processing time with pick-by-light

#### Application

Due to the growth and the ever increasing product range, the safety expert ABUS August Bremicker Söhne KG has reorganised the material flow in the warehouse and in picking. A new material flow calculator guides the load carriers with conveyor technology into the picking zones and ensures optimal utilisation. A new pick-by-light system with over 2,000 shelf displays supports the staff in fast and error-free picking.

#### Improved ergonomics

The 16 zones are equipped with seven shelving levels. The shelf displays are installed on the five levels in the middle. If picking takes place from the top or bottom shelf, glowing arrows of the display of the shelf above or below point the direction. The displays are thus always installed in the picker's field of vision. Bending or reaching is not required which improves ergonomics.

#### Special mechanical structure

Carton units at Abus have a weight of up to 40 kg. Individual shelves are equipped with a separation mechanism to make work easier for the operators:

A brake holds back moving up cartons. The operator releases the brake by briefly bobbing the entire shelf upward. The next carton then moves up.

#### Replenishment supply

Replenishment supply is also triggered automatically: Each acknowledgement deducts the according quantity and if the minimum quantity is fallen short of, the high bay warehouse will get a message that the according item is required from the LVS.

#### Paternoster storage systems

20 additional paternoster storage systems are integrated in the picking system that will transport trays to a operating opening on request. This Kardex shuttle alone could store more than 7,000 different items.

#### The advantages at a glance

- Reduction of processing time
- Increase of efficiency
- Reduction of the load for the staff
- Increase in picking quality and thus customer satisfaction



"Today, we can process order with a time of 15 to 30 minutes – from receipt of order to shipping."  
Christian Palenio, responsible for the organisation at Abus

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