

## Case study: Weddeling

Pallet Shuttle system for storing a logistics provider's products

Country: Germany



**Mecalux has equipped the warehouse of logistics provider Weddeling in Borken (northern Germany) with two racking units and the semi-automatic Pallet Shuttle system. This solution, capable of storing 4,876 pallets, has streamlined the inflows and outflows of the company's goods to and from their corresponding channels.**

### Characteristics of the Weddeling facility

Weddeling's installation comprises two 7.5-metre-tall racking units with the semi-automatic Pallet Shuttle system. One block measures 55 m long and 11.5 m deep, while the other is 47 m long and 11.5 m deep. Each channel can accommodate up to 13 pallets. With this high-density solution, Weddeling is able to store a

very large number of pallets per SKU for each of its customers. The logistics provider stores 2,756 pallets measuring 800 x 1,200 mm and another 2,120 measuring 1,000 x 1,200 mm, totalling 4,876 pallets.

This system not only makes the most of the available space in order to achieve the storage capacity that this 3PL needed, but is also very easy to operate. Product en-

tries and exits are speedy and require minimal operator intervention. The motorised shuttle is charged with moving the goods inside the storage channels. As a safety measure, a passageway has been set up. Cutting crosswise through one of the racking units, it serves as an emergency exit. The top and sides of this underpass are protected by electro-welded mesh, which prevents the accidental fall of goods.

### How does the semi-automatic Pallet Shuttle system work?

1. Aided by forklifts, operators insert the motorised shuttle into the corresponding channel.
2. The forklifts deposit the pallets in the first position of the channel.
3. The Pallet Shuttle moves the pallets directly to the next free location inside the channel.
4. To remove the goods, the same operation is performed but in the reverse order.



The high-density Pallet Shuttle system offers a storage capacity of 4,876 pallets distributed into 209 channels, suitable for storing all the products belonging to Weddeling's customers



#### Advantages for Weddeling

- **Storage capacity:** in a total of 209 channels, the warehouse obtains a storage capacity for 4,876 pallets.
- **Speedy high-density system:** among high-density systems, the Pallet Shuttle is the most flexible by facilitating the insertion and removal of pallets into and from the channels with minimal operator intervention.
- **Guaranteed safety:** a safety underpass that serves as the emergency exit has been set up. It is protected by electro-welded mesh to ensure that operators are fully protected.

Weddeling   
Logistik

#### Technical data

Storage capacity	4,876 pallets
Pallet sizes	800/1,000 x 1,200 mm
Max. pallet weight	1,000 kg
Racking height	7.5 m
Racking length	47 and 55 m
Racking width	11.5 m

