

Case Study

# Tailored Storage Solutions





# Storing bulky and long goods

## Customer and task

Frank Mohn (est. 1938) is an international group of companies with 1,200 employees. At their factory in Norway, they manufacture products for the oil & gas division: CNC machines on the 1st floor and welding and cutting work on the 2nd floor.

Transported via a scissor lift, pallet shelving served as interim storage for semi-finished goods. The production area then stored the pallets containing finished goods.

Frank Mohn needed to improve these processes and commissioned Kardex to tailor a unique storage solution.

## Solution

Kardex recommended a TowerMat for outside the production building: this 18-meter high unit works well for heavy and long goods. Each load carrier holds up to five Euro pallets each weighing up to 1,000 kg. The unit has three access openings, one of which is reached from the outside of external companies that supply components. In the production area, they installed a second TowerMat to store pipes and parts up to seven meters long.

Additionally Kardex installed six Kardex Shuttle 1000 in the hall for picking smaller and medium-sized parts and six Kardex Shuttle Multiple to store individual pallets. Together these optimize the depth of the building space.

The solution resulted in a straightforward movement for semi-finished goods between various production areas and created interim storage and just-in-time retrieval of components needed for assembly.

## Case at a glance

### How we took our customer from task to solution

Frank Mohn is a manufacturer of submersible pumping systems for the shipping and offshore industry. At their factory in Frekhaug, Norway, they store and retrieve various sized parts (e.g., small, bulky, and very heavy goods). Kardex customized a solution to shorten access times, increase retrieval accuracy, and optimize internal transport.

18-Meter  
high  
pallet storage

165 Euro  
pallets  
in a 49.5 m<sup>2</sup>  
space

Optimal use  
of hall height



### Scope of delivery



6 Kardex Shuttle Multiple  
W: 3,380 mm | D: 6,148 mm | H: 10,350/9,450 mm  
6 Kardex Shuttle 1000  
W: 1,635 mm | D: 4,029 mm | H: 8,500 mm



1 TowerMat TM-FE 2.3  
W: 6,494 mm | D: 4,940 mm | H: 18,000 mm  
1 TowerMat TM-FE 2.3  
W: 7,980 mm | D: 3,400 mm | H: 10,475 mm



Kardex Power Pick System warehouse management software  
Picking aids: LED pointer and confirmation bars