

Case Study

# Hygienic Storage





# More space for patients

## Customer and task

In 2010, Karlstad hospital extended their premises to make their internal logistics smarter and more efficient. They concluded that the nurses needed roughly four hours per shift to pick and distribute items like gloves, injection materials, linen, etc. and therefore asked Kardex for support.

They wanted to reduce the number of stored items, which means capital bound in stock.

## Solution

In close cooperation with Kardex Remstar, Karlstad installed one Shuttle XP 500. The 25-meter high storage solution, built in the middle of the new building, has 5 access openings with LED pointers on each of the five floors. It's equipped with 125 trays and dividers in stainless steel for hygienic reasons. They defined 10 location sites for different sized goods and allocated all stored items a specific location size.

Now, the same amount of goods using only 10% of the floor space allows for 4-5 more patients per floor.

Karlstad also eliminated picking errors with "pick-to-light" operator prompting and hand-held devices.

Kardex delivered the entire IT infrastructure, integrated into the hospital's ERP. Two cold standby/backup PCs grant 100% operational security.

## Case at a glance

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

The central hospital in Karlstad serves the whole county of Värmland, Sweden. The hospital has 3,200 employees, 600 patient beds, and cares for approximately 350,000 patients annually (including emergency visits). Their premises cover around 147,000 m<sup>2</sup> in total. Kardex helped Karlstad increase space and liquid cash flow, reduce errors, and enhance security features.

**Saved 75%**  
time to pick and  
distribute items

**Reduced**  
capital bound in  
stock by 90%

**Eliminated**  
picking errors



### Scope of delivery



1 Shuttle XP 500 with 125 trays, hygienic dividers  
W: 2,450 mm | D: 813 mm | H: 25,000 mm



Handheld devices  
LED pointers on each floor



Warehouse management software integrated into existing ERP  
Two standby/backup PCs