

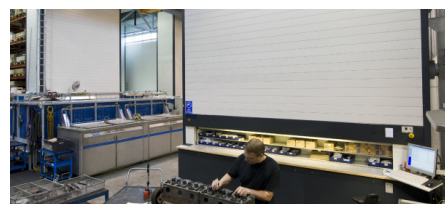
Reference:**Koiviston Auto Oy, Lahti, Finland**

Koiviston Auto Oy, Finland is a reference in the category

Finland

Agrimarket, Finland
Berner Oy, Finland
Elektroskandia, Finland
H. Kraatz Oy, Finland
Hansaprint, Finland
Huhtamäki Oy, Finland
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Nanso Group, Hämeenlinna, Finland
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Koiviston Auto purchased their first Paternoster vertical carousel in the previous millennium. Since then several Paternosters have been ordered for various locations. In 2007, the company renewed its logistic functions by building a new central warehouse to Lahti.

For the new central warehouse, Koiviston Auto purchased four new Paternosters and five older ones were transferred from other premises. A further Tornado is also used in the central warehouse. All spare parts

needed by the group are purchased to the new central warehouse, in total there are 7500 articles in the warehouse, all of their small-items are in storage machines.

Solution:

By concentrating the purchase of spare parts and repairs of exchange parts in one location, Koiviston Auto has gained remarkable benefits. Spare parts are bought at a lower price and the freight costs have decreased. The high room space in buildings has been utilized by Paternoster solution, which in fact was the main reason for Koiviston Auto to choose these machines. The company has gained more storing meters.

Due to their vertical storage machines, the picking speed has increased, at the same time the general tidiness and order has improved. Within a Paternoster there are 60 levels, each level can carry at least 400 kg. One machine may contain more than 1000 items, when another has only a few hundred items. This means the machines have been purchased for different needs.

Capacities:

Tornado height: 5000 mm
Tray width: 3000 mm
Tray depth: 820 mm
Tray qty per Tornado: 15
Load capacity per tray: 500kg

Several Paternosters, the biggest with details:

Paternoster height: 8240 mm
Level width: 4100 mm
Level depth: 420 mm
Level qty per Paternoster: 32
Load capacity per level: 400kg