

Case Study

A Sparkling Success





7 times more efficient

Customer and task

The project was triggered by a requirement for greater floor space and also the wish to create an automated plant. Hassia supplies a range of approx. 100 different drink products with 26 different container types and 178 articles.

The company is focusing increasingly on diversification, a multi-brand portfolio and regional sales strategies for its classic products, but also on product innovations. Another challenge was to increase the handling capacity from the previous 300 pallets per hour in goods issue – today the throughput of 450 pallets is much faster and more efficient.

Solution

The solution is a high-bay warehouse in which all processes, from goods receipt to goods issue, are fully automated. Kardex Mlog has already constructed numerous plants for companies in the food and drinks sector.

The fully automated plant for Hassia was built on a 4,500 m² site and, with 22,000 pallet storage spaces, it increased the total storage capacity to more than 60,000 pallets – enough for almost ten million litres of mineral water. At the heart of the plant are the seven storage and retrieval machines (SRMs), which perform all storage and retrieval operations fully automatically in the narrow aisles. Each SRM is equipped with electronic components and sensors, which enable precise positioning in front of the racks and high performance – and the racks are approximately 80 metres long and 20 metres high.

At a glance

Multi-million investment pays off

Storage capacity increased by 30%, goods issue doubled, personnel costs in the warehouse reduced by 50%: After the first two years of operation, Hassia Mineralquellen's automated high-bay warehouse is a resounding success. The ultra-modern complex was commissioned at the company's headquarters in Bad Vilbel in 2012.

450 pallets
per hour in goods
issue (+100%)

+22,000 pallet
storage spaces
(+30%)

Up to 1,500
storage & retrieval
cycles/hour



Scope of delivery



7 fully automated storage and retrieval machines with a height of 20 m



7 rack aisles, 80 metres each



Extensive sensor and control technology