Press release

Hörmann Intralogistics receives order for AutoStore system with innovative robot cell

Munich, February 2025 – Hörmann Intralogistics has received an order from Siemens AG in Rastatt to implement an AutoStore system with an integrated robot cell. For the first time, this combination enables fully automated goods receipt of small load carriers into an AutoStore grid. The project sets new standards in the automation of intralogistics processes and offers a well thought-out concept for high speed.

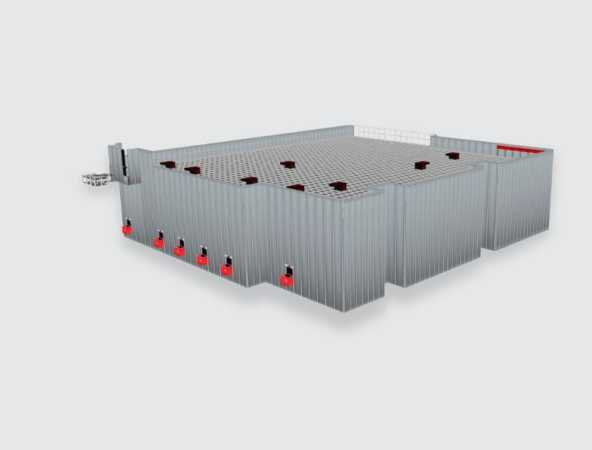

Illustration 1 AutoStore visualization for Siemens AG Rastatt, the robot cell is mounted on the front right

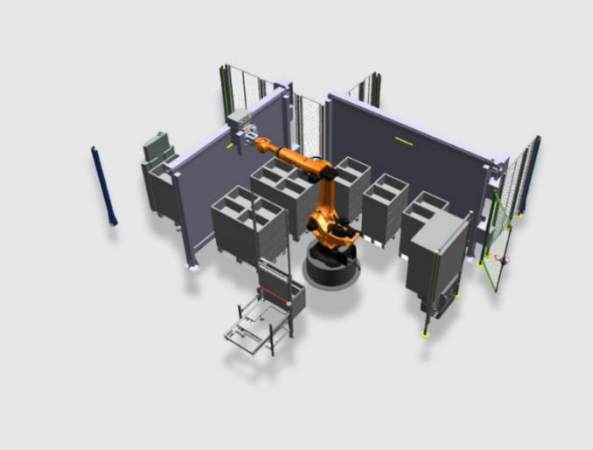

Illustration 2 Picker robot cell with AGV delivery

Efficient connection of AutoStore and robotics

The project includes the planning and implementation of a modern AutoStore system with the following key data:

Single-double-grid with a capacity of approx. 23,000 containers
8 "Red Line" robots with 8 charging stations
6 conveyor ports for picking and goods receipt
10 kN supports and aerosol capsules
Outgoing goods capacity for production: 100 retrieval per hour at two workstations
Outgoing goods capacity for customer picking: 60 retrieval per hour at two workstations

A specially developed robot system with "bin-in-bin, bin-out-bin" technology is used to fully automate incoming goods. A Kuka robot, equipped with a special gripper and integrated vision technology, takes care of the storage and retrieval in the AutoStore Conveyer port

The robot system takes over filled containers from pallets or trollies, which have been brought into stations fully automatically using AGVs (provided by Siemens). Barcode readers and weight monitoring check whether they can be stored, i.o. containers are inserted into the conveyor port, n.i.o containers are ejected via a n.i.o place. Access is secured via two locks with light curtains, radar sensors and roller doors. The control of the system and the synchronization of the processes with SAP EWM enable a seamless process.

The facts of the innovative bin-in-bin, bin-out-bin robot cell:

- A robot arm accepts the small load carriers (KLT), which are also served fully automatically by AGILOX ONE and ODM, and automatically inserts them into the AutoStore grid.
- 55 put-aways per hour at one workstation
- Empty small load carriers are automatically removed from the AutoStore containers.
- With the help of modern 3D vision technology, the robot cell can recognize and handle four different types of small load carriers.
- The security areas are monitored using INXPECT radar technology.
- The entire solution will be integrated into the existing SAP EWM system

Voices on the project

Jonas Wilhelm, Project Manager Logistics at Siemens, about the project: "With the new combined solution, we are creating end-to-end automation in our warehouse logistics, which not only accelerates processes, but also lays the foundation for a future-oriented material flow strategy. We are looking forward to working with Hörmann Intralogistics."

"The combination of AutoStore with a robot cell for fully automated goods receipt is an incredibly exciting thing for us," explains Sebastian Behrens, Project Manager New Technologies at Hörmann Intralogistics. "The KLT gripping concept and the integration of the robot into the overall system were particularly challenging. We are pleased to be able to implement the pioneering concept together with the Siemens project team and to ensure even more efficient processes."

The implementation phase will begin at the beginning of 2025 with planned completion in August 2025.

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