

AutoStore® System with Warehouse Management System HiLIS AS for Gessmann

W. Gessmann GmbH is the international market leader for industrial switchgear and automated guided vehicles. Innovative product development and highest quality characterize the high-quality compound drives with electronic interface adaptation. At the company headquarters in Leingarten (Baden-Württemberg), where all products are developed, designed, mostly assembled and exported worldwide, together with the international sales offices, about 550 employees are working. For the storage and order picking of small parts, HÖRMANN Logistik is setting up an AutoStore® system with a customized warehouse management system HiLIS AS in an existing warehouse at the Leingarten site.

Concept

Tailoring the AutoStore® small parts warehouse to Gessmann's requirements, HÖRMANN Logistik carried out a comprehensive system simulation with real data. The performance requirement of over 1,150 storage and retrieval operations per day, together with the planned operating times, led to the individual system configuration.

15,000 bins measuring 649 x 449 x 330 mm (L x W x H) are stored on 16 levels. Each bin has a net load capacity of approx. 30.5 kg.

A total of four conveyor ports are available as workstation modules for goods receiving and order picking.

Above the bin stacks and a storage platform is the single-double grid with approximately 420 square meters. On the grid, the 6 Red-Line robots move in two directions by means of their four pairs of wheels arranged at an angle, thus accessing every position in the grid. They communicate via WLAN with the AutoStore® controller, assigning the transport orders to the individual robots. When the order load is low or the battery capacity is too low, the robots move to one of the 6 charging stations. The AutoStore® controller is located on the connected service platform.

System control with integrated optimization algorithms

Complete picking orders (task group) with the individual picking items (task) are handed over by the HiLIS WMS to AutoStore®. With a lead time of 30 minutes, AutoStore® with its integrated optimization algorithms ensures maximum efficiency in processing the orders.

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Press information

Maximum performance and availability with the WMS HiLIS AS

By its basic concept, the AutoStore® control system autonomously executes the transport orders for all robots, but does not administer the SKU information of the containers. For this purpose, HÖRMANN Logistik has developed the higher-level warehouse management system HiLIS AS. It is tailored to the requirements of AutoStore® and directly interfaces to the customer's HOST systems. All system data and functions can be accessed quickly at any time via the HiLIS AS visualization.

The AutoStore® system at W. Gessmann GmbH will be put into operation at the end of June 2021.

Munich, February 2021

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