

Press information

New automated high-bay warehouse built in Durtal, France

HÖRMANN Logistik designs and supplies an automated high-bay warehouse for the packaging manufacturer DS Smith. With innovative strength and commitment, the British company is pursuing its goal of leading the way in sustainable packaging. Around 30,000 employees work for DS Smith in 30 countries. A new two-aisle high-bay warehouse for corrugated sheetboards is built at the French site in Durtal on the Loir River. The project is planned and implemented by Hörmann Logistik. The start of operations is scheduled by the beginning of 2022.

The concept

The high-bay warehouse (HRL) is built in a new hall next to the production hall. The stacks of corrugated board are transported to the pre-storage area of the HRL via conveyor technology. The HÖRMANN Logistik system takes over the stacks and transports them first through a contour check, and then towards the SRM transfer. The conveyor system of HÖRMANN Logistik is designed in such a way that 11 forks of the stacker crane can slot into the conveyor system to pick up or deliver the load unit.

Gentle handling of corrugated board stacks without strapping and without bottom pallet

With decades of corrugated cardboard experience, HÖRMANN Logistik also designed the new high-bay warehouse for DS Smith to meet the requirements of the sensitive material and the different corrugated cardboard formats. Thus, the corrugated board stacks were divided into different width classes from 580 to 2620 mm. This allows them to be arranged in singles, pairs or triples. The two storage and retrieval machines (SRM) are each equipped with 11 individually driven telescopic forks. Subject to the width category, the corresponding number of forks take up the stacks to transport and store them safely and gently.

The SRM may transport single, pairs or triple units. In the racking compartments, several longitudinally aligned steel profiles ensure flexible use of space with different stack widths while ensuring best support of the format stacks. The compartments are precisely approached by the SRM, using a camera-based compartment fine-positioning system. The HiLIS warehouse management system, communicating with the customer's ERP system, controls the volume-optimized allocation of the compartments.

Facts

The scope of supply of HÖRMANN Logistik includes steel rack construction, , stacker cranes, conveyor technology, the HiLIS WMS, as well as the PLC-based system controls including system visualization.

Press contact:

Marketing extern Annett Sachs
Khünburg 49 9620 Hermagor/Austria
Tel: +43(0)4282 20570
mail: a.sachs@marketing-extern.com

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- High bay warehouse, 2-aisle
- 2 two-mast stacker cranes with 11 individually driven telescopic forks each
- Dimensions HRL 45 x 18 x 190 m (L x W x H)
- Storage capacity approx. 536 storage locations for approx. 630,000 m² corrugated board formats
- Storage and retrieval capacity at least 61 units/h each
- Operating hours 24/6

Assembly will start in August 2021, commissioning is scheduled for January 2022.

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HÖRMANN Logistik GmbH

Gneisenaustraße 15

80992 Munich

Germany

Tel. +49 (0)89/14 98 98-0

Fax +49 (0)89/14 98 98-98

info@hoermann-logistik.de

<https://www.facebook.com/HoermannLogistik/>

<https://www.linkedin.com/company/h%C3%B6rmann-logistik-gmbh/>

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