



Put-to-Wall and mechanization system

HIGH SPEED SYSTEM

The capacity of the system is 7000 cartons per hour, which amounts 2 cartons per second.

EFFICIENT

7 connected PLC's control about 7 kilometer of conveyors.

PUT-TO-WALL

More than 3500 Put-to-Wall locations are provided with 2 picklights each: an A-picklight with display on front and a B-picklight without display on the back.

CNSS, located at Danyang Logistics Industry Park, Zhenjiang, China, is a professional logistics distributor providing warehousing storage and distribution with high efficiency and proficiency. The E-commerce business is booming in China.

Concept

The central warehouse for CNSS was automated in many areas. To facilitate the warehousing process, Inther provided the Put-to-Wall sorting system and the PLC control for the mechanization system.

About 800.000 SKU's, including textile goods, food, shoes, beauty care products and accessories are stored and handled on five levels with a total footprint of 51.800 square meters.

Automation

Automation begins in the goods receiving area with goods inspections and quality checks. About seven kilometers of conveyors wind through the four-level picking warehouse including several order picking stations operated. Receiving, consolidation (Put-to-Wall), packing and shipping occurs at the ground floor.





Order picking

Order picking is done in two steps. First, items are pre-picked in batch modus and transported on the conveying line to the 70 double workstations for fine picking. Here 140 workers consolidate the orders with a Put-to-Wall system. Each putlight on the wall represents a specific order. The putlight display and the confirmation button indicate the SKU and quantity required for this order.



As soon as an order is finished, it is taken out of the backside of the racking, after which it is transported to separate packing workstations where 280 packers make the goods ready for shipping. Cartons ready to be shipped travel to the outbound chutes over the main conveying line. The cartons will be sorted using the shoe sorter (a high speed, very precise sortation technology) to its chute for outbound.