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WORKING IN
PARTNERSHIP WITH



how CCEN automated their production
warehouse to increase handling capacity

automated warehouse

The Client

Coca-Cola European Partners Norway (CCEPN) is the Norwegian Coca-Cola bottler and Norway's largest producer of non-alcoholic beverages.

The Challenge

Storing of products was primarily based on block stacking. Due to lack of storage capacity at their site, CCEN was renting warehouse capacity offsite causing additional handling and distribution costs. They wanted to have more flexibility in terms of; future product innovations and package diversity, potential business fluctuations, volume growth in their core Stock Keeping Units (SKU) and to limit expensive overflow storage options.

CCEN saw the project as

an opportunity to further improve safety and reduce human errors and operation interventions, and as a path to significantly improve inventory accuracy and dispatch efficiency.

The Solution

Actiw's high density solution was able to provide 21,000 net pallet positions with no modifications to the existing low-level facility. The system has a high throughput capacity of 760 pallet movements per hour (input max 430 pallets/h, output max 330 pallets/h), running at 94% utilisation of available pallet positions.

Actiw installed a dual-module system, that buffers, sorts, and stages palletised loads in an exact sequence. Outbound is pre-staged on 20 dual gravity lanes (equals 20 orders) with

the truck drivers loading with electric hand pallet trucks.

The Actiw system was split into two separate units, facilitating a staged installation, and commissioning program with the first high-density system brought online to generate space for the second phase installation. This allowed the customer to continue day-to-day operations during installation and gave resilience during normal operation.

The pallet flows from production lines and external bottlers (toll fillers) were grouped into three warehouse in-feed areas to simplify the conveyor system. The pallets are identified, and their profile and deflection are checked before transfer to one of Actiw input points. Approved pallets continue into the Actiw system. Unacceptable loads

are routed to the reject spur for rework and return to the system.

Actiw's systems storage algorithms direct Vertical Transfer Lifts (VTLs), Cross Aisle Transfers (CATs), and Deep Lane Transfers (DLTs) to position the incoming pallets within the system based on their retrieval time. This ensures that the next pallets required for output are at, or near, the output paths of the Deep Lanes for quick access.

Conclusion

The resulting warehouse is significantly more efficient, profitable, and environmentally friendly. The storing and handling capacity objectives were reached, and the need for outside storage was eliminated. The system was fully operational within 14

months, which was ahead of schedule. Automated handling also eliminated product damage. With each pallet stored separately and eliminating fork-lift handling the product damage problems they previously had with block stacking and manual handling have been eliminated.

The need for manual handling between the production lines and picking and dock area was minimised, the costs of logistics operations were thus decreased. With this flexible warehouse design, the customer is well equipped to meet future opportunities or potential changes within its product portfolio with increased efficiency.

if you have any questions, please get in touch!



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