Roger & Roger
A FAMOUS NAME IN SNACKS

Roger & Roger

About

Roger & Roger, owned by the West-Flemish family Dick, is a fast-growing producer of potato-snacks. From Moeskroen, the company exports and distributes chips for the private label market to twenty countries. The company was founded in 1999 and has a total of more than 250 employees.

Due to this growth, Roger & Roger decided to invest in the automation of the storage of the inventory of finished products. In order to automate the warehouse and to integrate the warehouse operations with the existing ERP system, the company decided to stop working with Manhattan, the currently used WMS.
They selected a new WMS, Dynaman, with C&W functioning as implementation partner.

The Project

IT Environment

- Roger & Roger uses AXAPTA from Navision as ERP platform.
- The integration between the WMS and AXAPTA was facilitated by the **C&W Supply Connector tool**, which functions as translation platform of the presented interface files of AX to the WMS database and the other way around.
- Integration with MESWARE for registration of the produced pallets.
- The existing MES solution for the management of palletiser tables was replaced by **C&W MES software**.

Inventory and Environment Characteristics

- Mainly pallet handling with limited volume of SKU/Box picking.
- Only BBD specific goods with a permanent link to related production tasks/batches.
- The complete tracking & tracing within the WMS to ensure that the lifecycle of every product on container, lot-level and EXP can be reconstructed.
- The project was initiated in two different phases:
  1. Traditional drive-in is transferred on new WMS (RF driven)
  2. Implementation of fully complete automated AS/RS

Warehouse Automation

Within the warehouse, a variety of automation techniques are used.
The following were integrated in the WMS:

- Supply of production pallets to automation by monorail.
- Automatic storage (26.000 pallets) handling by cranes and shuttles from Mlog/Kardex.
- Integration with MFC delivered by Intrion.
- Outbound of distribution pallets by monorail.

Processes

I. Reception

- ASN notification for all produced pallets from SAP to WMS through C&W Supply Connector.
- Possibility to reprint production labels.
- Reception of external deliveries based on AX purchase order by RF with controlling by WMS on completeness of information, dependent on the receiving customer/item-combination.
- Returns and/or unknown pallets who are not pre-announced in detail (pallet) can, by scanning the EAN 128 label, be recreated (SSCC/item/lot/THT/Qty).
- Crossdocking pallets from production to shipment, through automation.
- Products can be received in quarantine, with automatic time-based release by the WMS or release by labo on batch-level.

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II. Storage

- Storage within automated high bay in lanes with variable capacity that all can be operated by two cranes, and are accessible on both sides.
- Customized storage logic, driven by putaway groups, rules and conditions in the WMS.
- Storage management of quarantine pallets, blocked pallets, rest pallets with automatic reshuffle.
- Spreading product in the automated warehouse at inbound for redundancy in case of mechanical issues.

III. Picking and Replenishment

- Outbound shipments, whether or not they contain multiple delivery addresses, are sent through AX to the WMS.
- The level of information related to the inventory to be delivered can vary from item, to item/batch.
- WMS reservation logic, configurable by Roger&Roger by picking groups, rules and conditions, automatic spread of workload on the cranes.
- FEFO picking takes tolerance of BBD into account.
- Combination of pallet and SKU picking in a shipment are managed and split by the WMS.
- Replenishment, whether or not through the automation by replenishment groups, rules and conditions.
- Pick&Hold principle : previously executed SKU picking, staged. (whether or not in the automation).
- When shipment contains multiple delivery addresses, pallets are picked and delivered in the right sequence (reverse unloading sequence).
- Managing of outbound through WMS Dock&Yard management, with visualisation and Drag&Drop functionalities for the triggering of actions (reservation inventory, forwarding of pick/transporttasks to the staging lane X, ...).
- Complete tracing of times, status and progress of shipments (arriving, unloading deposit, start loading, stop loading, take off).

IV. Offline VAS (Value added service)

- Skimming of pallets from product A to product A but with new configuration (# per pallet, pallettype).
- Complete tracking &t racing of consumption components and output registration.

V. Shipping

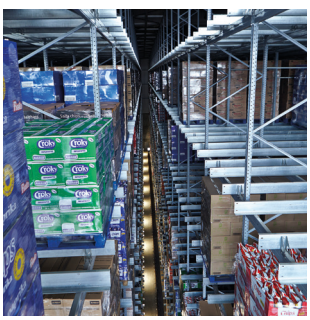
- Half stacked pallets are automatically stacked on the output lane before going through to loading.
- Pallets are presented to the chauffeur accompanied with WMS information and progress on a display per dock.
- Creation of necessaire customized shipping documents (CMR, delivery notes).

VI. Internal Logistics

- In and offline cycle counting based on configurable cycle counting groups.
- Automated (inventory) reports to different owners.

VII. WMS@R&R Towards the Future

- Integrations of C&W WMS and MES solution backwards in the R&R production flow:
  1. Packing tables already integrated with C&W MES software
  2. WMS for WIP and raw materials
  3. Further introduction of automation in production and storage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