Robot palletising system

Kraft Foods

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- Kraft Foods in Scandinavia - with the brand "Estrella" - is market leader on the Scandinavian snack market.
- Kraft Foods in Scandinavia has a turnover of DKK 5,000 million and 2,800 employees in Denmark, Norway, Sweden and Finland.

Main functions of the system

- Cartons are received from production lines via a fully automated conveying system and stacked on five automated stacker lines.
- Stacked cartons are palletised on 1/2- or 1/1-pallets by robot – up to five stacks at a time.
- When palletising mixed products for campaign pallets, cartons are first depalletised one by one by robot before being stacked by automated stacker. Subsequently, stacks are palletised, resulting in final pallets with one kind of product per layer.
- Following palletising, pallets are stretch-wrapped by means of two fully automated wrappers.
- 1/2-pallets are located on 1/1-pallet via two stackers also capable of stacking two pallets on top of each other for the best possible utilisation of lorry load.
- The two wrappers and the two stackers are placed on their own conveyor lines with a common by-pass and pallet buffer system connected to both lines.
- Eventually, labels are automatically applied, and pallets are accumulated on conveyor from which they are removed by forklift truck.

Total solution

- Palletising robots
- Fully automated conveying system
- Pallet stackers
- Stackers for stacking of cartons
- Stretch-wrapping machines
- PC control system

Plant Manager Rene Jorgensen of Kraft Foods Sweden says:

"The investment in the newest robot technology with a sensible pay-back allowed us to remove poor ergonomics and obtain advantages such as higher accuracy and better tracking of our goods."

Stacking of 1/1 pallets

Palletising of stacks

Stretch-wrapping

Depalletising

Stacking – 1/2-pallets

Controls with an overview

- The entire system is controlled by a PC control system with graphic interfaces, giving a total overview and control of the overall palletising system.
- Palletising tasks are planned via the control system with dynamic change of product types via automatic scanning of bar codes.
- A graphic system layout and info-board indicates any faults or stops occurring on the system, making it possible for the operators to locate and rectify the fault quickly.
- The system is capable of working independently of the superior system (SAP).

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