



Case Study: 'Georg Kimmel'

A specialised manufacturer of accessories for dry interior components designs and manufactures its parts in the German 'Ruhrgebiet' / Mönchengladbach.

Products:



Due to efficient manufacturing processes like stamping, wire bending and roll forming, smart solutions are offered in the market place. To support this success, reduce overall cost and to improve the health and safety conditions for the employees, the company started a program to optimize its packaging operation.

Over time the company has optimised its number of packages and uses for a certain product range only American style cases. These cases (L 335 x W 158 x H 115mm) with a weight of 5 kg are stacked on Euro pallets.

Situation at the start of the project: a production line without end of line automation. Manual case erecting and bottom closing is carried out by one person, whilst a second person packs the products - fed on a conveyor – into a case. Closing the case and palletising it is done by the first person.

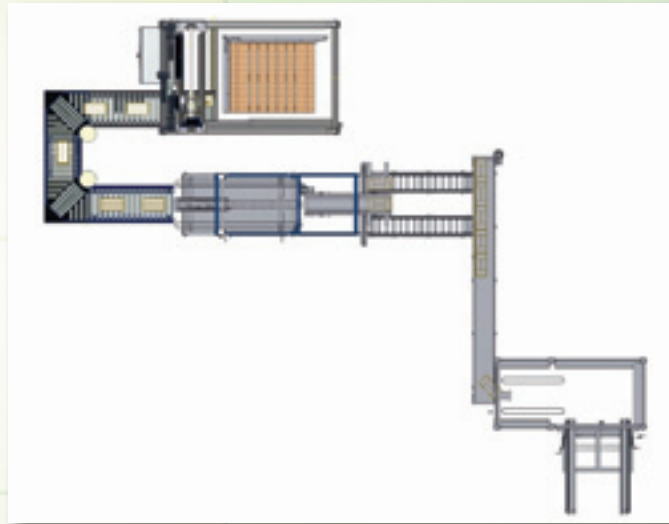
New situation: a production line with end of line automation.

Cases are automatically erected and the bottom flaps sealed with tape on a Lantech C-300 Case Erector. The erected cases are transported via an accumulating conveyor to the hand packing station. At the ergonomically designed hand packing station 1 or 2 persons pack the products into the case. The case is pushed onto a powered conveyor which feeds the Lantech CS-300 Case Sealer. After the case sealer the cases make a U-turn which helps to optimise the logistics of the pallets before entering the Palsys Gantry Palletiser P40-1. The vacuum pick-up head of the palletiser takes the case from the pick-up position and places the case in a pre-programmed position on the pallet. Due to smart design and construction the palletiser boasts a small footprint with the flexibility to change over to another pallet formation almost immediately.

Result

Within the limited space available, a solution is offered that can handle the growing output of the line with fewer operators working under better health and safety conditions. The robust and flexible packing line is capable of handling future growth and changing packaging requirements if needed. The benefits of this project are already so positive that similar end of line automation is already planned for the next production.

Lay-out of the system:



Machines integrated at the production facility of Georg Kimmel:

Lantech Case Erector C-300



Lantech Case Sealer CS-300



Palsys Palletiser P40-1

