

Project example Snackfood



Snack food is in, and the trend is clearly moving towards mixed packages with various flavors within one packaging unit. Whether it is Crinkels or Crisps, Doritos, Twisties, or Burger Rings, Chicken, Barbecue or Sea Salt, the Multipack line, designed and supplied by IPS, efficiently, quickly, and safely, packages all these variations in display cartons.

SEMP – Space Efficient Multipack – is the keyword. This was one of the main arguments that convinced the customer to make this investment together with IPS. This new kind of snack bag packaging in erected folding boxes reduces the volume by 30 % compared to the packaging used in the past. This considerably reduces storage and transportation costs. At the same time, this makes more products available for sale on the assigned shelf space in the store.

"The Original... and the Best" – Smith's slogan also applies to the packaging line. At the heart of the system are the TLM erector, the F44 packing line and the TLM closer, all from Schubert. Another essential part is Intellifeed's exceptional in-feed systems, which are exclusively supplied and maintained

by IPS outside the USA Markem laser coder and an OCS scale were also delivered.

The line produces two box formats with 13 different assortments. Eighty boxes are erected per minute. The in-feed systems supply the F44 packaging line with up to 1,600 individual bags per minute. These are then placed in the continuous flow of boxes with the help of specially produced suction cup tools. As the name already implies, all boxes are completed and closed with a separate lid in the TLM closer. The laser coder prints the expiration data onto the boxes, and the scale ensures

that only packages with the correct weight reach the final customer.

The promised line efficiency of 95% was also a challenge for IPS. The use of the latest packaging technologies and the special design of the individual line parts made it possible to achieve this goal. IPS lines offer standard features such as minimal change-over times, simple operation, and excellent accessibility.

1.



A flat box blank is erected to form the tray bottom section and successfully transferred into the transport system

2.

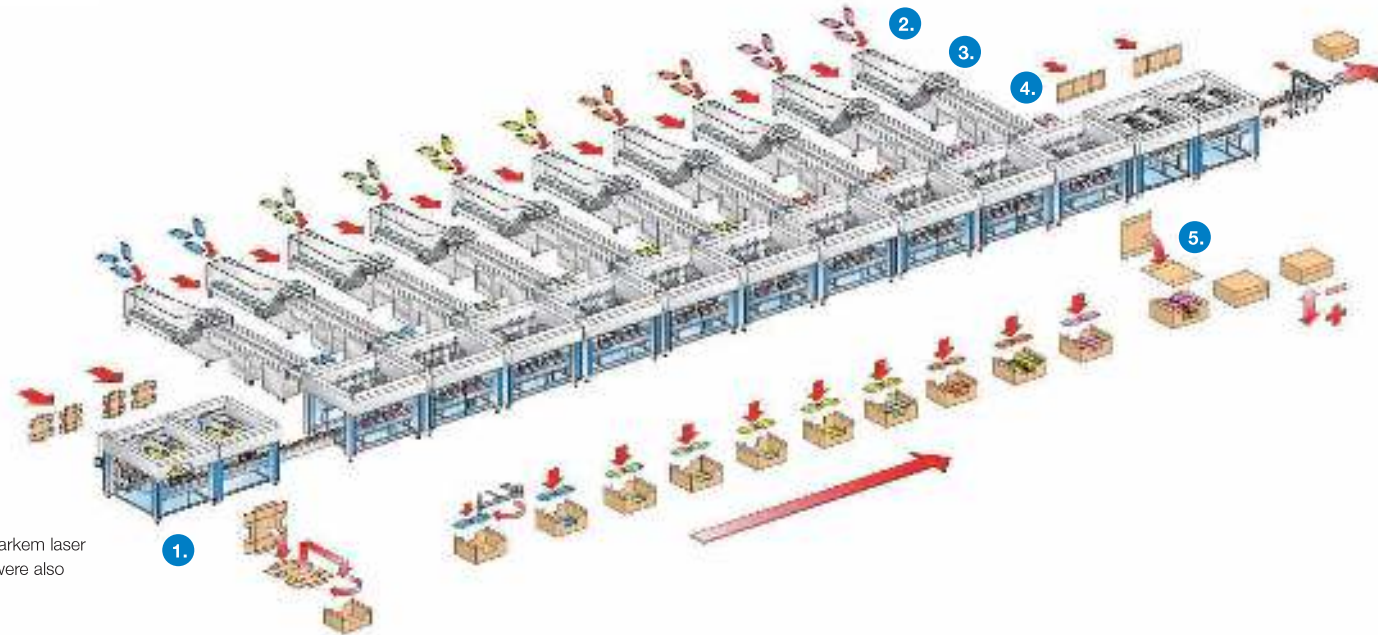


The identical bags are deposited into bunkers and separated from there with the Intellifeed sorting technology.

3.



Stepping motors ensure the separation and the continuous discharge of the individual products.



1.

2.

3.

4.

5.

4.

5.



As shown, the TLM-F44 carbon arm picks up the individual bags from one of the 20 in-feed belts and places them in the lower carton sections after the scanner has transferred the image data.



A TLM-F2 cell places lids on the fully loaded cartons (to be seen in the background) and transfers the containers to a discharge belt.