

challenges

Paradise needed an automated and flexible line to properly handle and wrap biscuits of different sizes standing on edge. Besides, the final pack compositions requested were of different slug dimensions, according to the type of product.

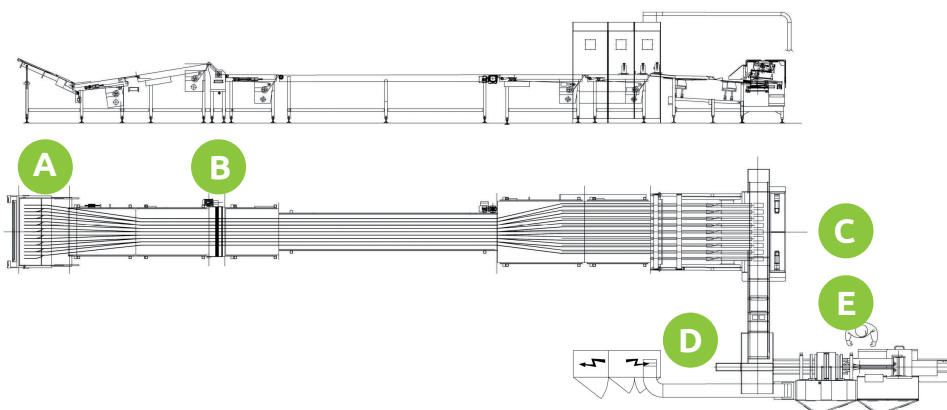
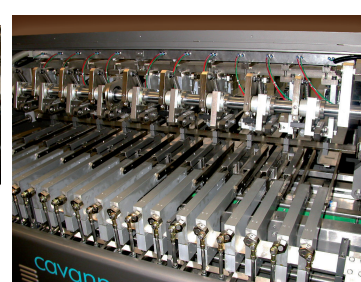
How to handle and pack all different sizes with just one wrapping line?

solutions / strengths

To supply the best packaging solution for the customer, Cavanna designed a line equipped with:

- A** LANE REDUCER
- B** "STAR WHEEL" STACKING SYSTEM
- C** SBF LOADER
- D** HIGH SPEED TRANSFER UNIT
- E** CAVANNA Zero 5 NKZ WRAPPER

Once biscuits are out of the oven, they are conveyed to the wrapping line in lane of 14/16/18 depending on size. Then a lane reducer halves lanes to 7/8/9. Afterwards a conveyor belt transports the canalized lanes between the guides towards the stacking system, type "Star Wheel". When products are stacked, a buffering conveyor carries them to vibratory channels, which are inserting the biscuits into the SBF loader, an automatic slug feeder. This device is a volumetric portioning system which can be set to the desired slug length, up to 235 mm. It is equipped with ten vertical magazines, each one to collect one lane of products coming from the conveying system upstream. Then, biscuits pass through a 90° high speed transfer unit and they are conveyed to the wrapping machine Cavanna Zero 5 NKZ.



results / benefits

Cavanna succeeded in providing a packaging solution able to combine all the different product sizes and slug compositions with a high line performance.

The system can handle slugs with a length of more than 200 mm at a speed of 150 ppm (almost 5.000 biscuits ppm). The speed itself proves the top class quality of this wrapping line.