

Case History

Cereal bars

CHALLENGES

Among the most difficult items to handle in packaging there are sticky products. Dealing with them is even harder when they arrive to the wrapper at a high speed and in a high number of rows.

That was the case of our customer which needed to wrap cereal bars one by one at a speed of more than 600ppm. Moreover he requested a flexible line able to deal with several sizes.

How to deal with sticky products coming in a high number of rows?

High row rate

SOLUTIONS/STRENGTHS

Storage 7/8 min

Cavanna supplied a packaging line featuring a *row pieces multiplier* in order to reduce the number of incoming rows by increasing the number of pieces per row. The line is equipped with:

- row distributing system -SDR-
- an in-line loading system -STR-
- a storage unit with a capacity of 7/8 minutes (about 21.000 pieces).

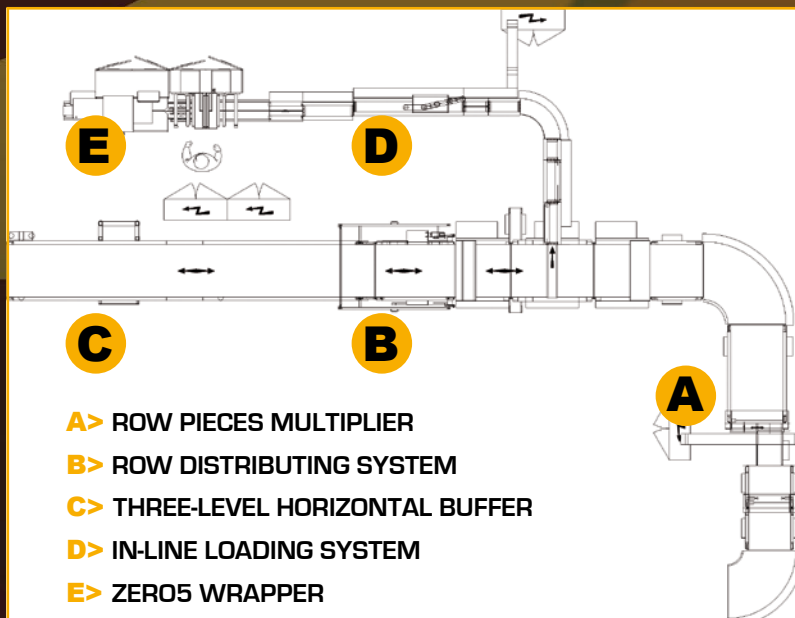
The SDR is a conveyor belt system placed between the processing line and the horizontal loading system. Its function is to receive products in aligned rows and distribute them orderly.

The STREAM is a horizontal loader composed of a series of belt conveyors, each with its own drive, having the function to receive the products from the processing line and deliver them to the wrapping machine.

The storage unit is a three-level horizontal BUFFER with automatic search of loading and discharging levels.

It is equipped with 3 storage belts with step-by-step movement and loading photocells.

The product



RESULTS/BENEFITS

Cavanna's line reached a more than 99% efficiency at a speed of 660 ppm. The wrapping system granted a great flexibility thanks to its capacity in handling 28 different sizes. These results are outstanding considering that the line deals with sticky products. High level of sanitation and cleanability.

Efficiency 99 %