

challenges

The customer's need was to have a fully automated system to form, fill and close boxes of flow-wrapped cereal bars at a speed of 400 ppm. Boxes had to be filled in the configuration of 2 layers of 3 bars each.

What is the best integrated solution to fill and close boxes without wasting too much space?

solutions / strengths

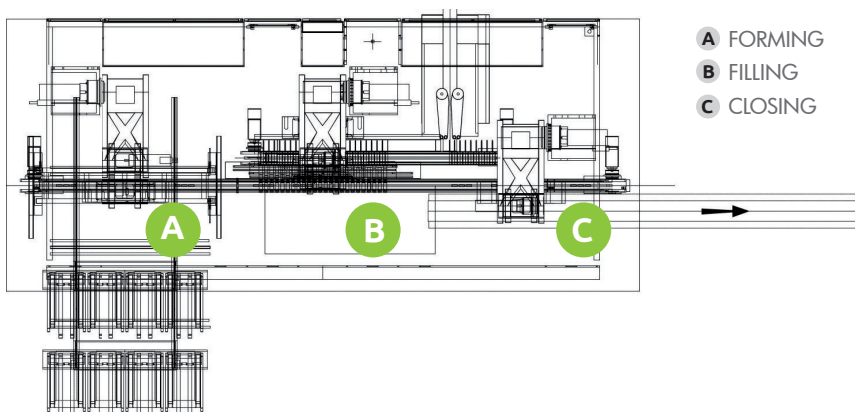
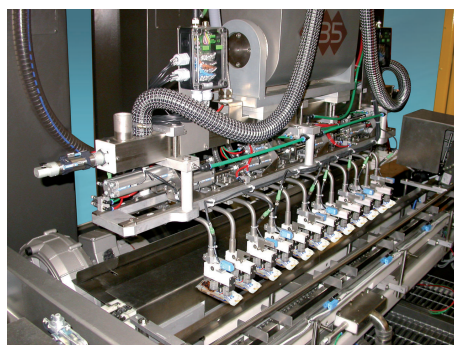
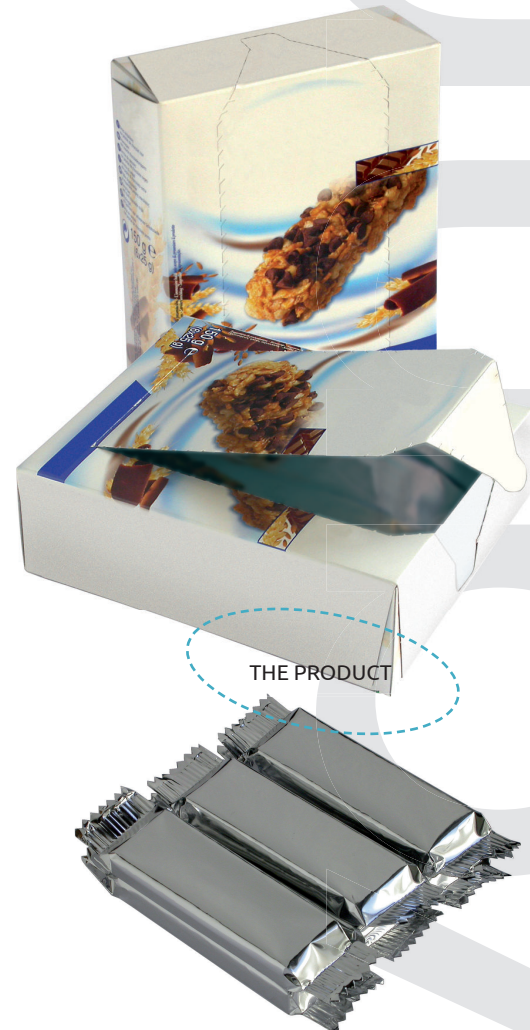
Considering the demanding customer's need and the tight space condition, Cavanna supplied the most compact and complete solution: the new Robotic system G35 EFC.

The robotic island includes 3 robots.

- ✓ *Decidedly innovative, the modular approach proposed by Cavanna integrates the forming, filling and sealing. Therefore, these operations formerly performed by independent machines are now carried out by a single work unit.*
- ✓ *The integration has in fact reduced the overall footprint with no compromise in functionality.*

The first robotic arm picks and forms 4 cartons, then inserts them on a chain conveyor. There, the second robotic arm picks the products from the vertical multipack collator - VMC - which is continuously fed from the packaging machine. The robot picks up 12 bars and fills 4 boxes at the same time.

The third arm is equipped with a head for closing and hot gluing the cartons.



- A FORMING
- B FILLING
- C CLOSING

results / benefits

The G35 robotic island satisfied all customer's needs. Modularity is the key distinguishing feature.

Each robot is a compact, flexible module within the island, synchronized with the other packaging machines in the line. G35 enabled tight integration with the upstream flow wrapper, space reduction and high performance.