

# Case History

## Chocolate biscuits in moulds

## CHOCOLATE BISCUITS PLANT

### CHALLENGES

Even the carb-conscious get tempted by so delicious chocolate biscuits. And, with the market demand running high, one of the world's largest bakeries sought an automated system that would be more productive.

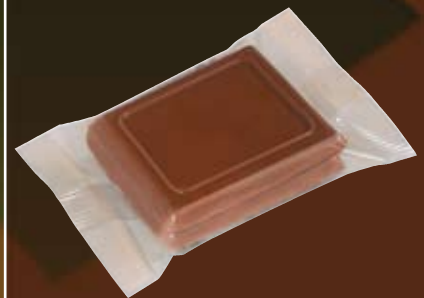
The system needed to handle 900/1000 pieces per minute coming from the process line.

Products arrived in plastic moulds

- each containing 30 products (chocolate coated biscuits)
- and had to be flowpacked in piles of two (450/500 packages per minute).

How is the automated line to be configured to face a demand of increased production?

### The products



### SOLUTIONS/STRENGTHS

To meet the needs, Cavanna designed and supplied a new packaging solution just for the bakery, consisting of transport system, double intake of moulds, axial handling system, evacuation and recycling of empty moulds, superimposed pile-forming device, wrapping machine Cavanna Zero 5.

The killer application of the solution developed by Cavanna is the AXIAL HANDLING SYSTEM, consisting of two heads.

They are run by five brushless motors to perform the following movements simultaneously

- backwards and forwards (1 motor)
- upwards and downwards (2 motors)
- products' chasing (2 motors)

The system simultaneously takes and releases two rows of products from two moulds (12 products/mould/head = 48 products).

Given a production of 900/1000 ppm, the axial handling system works at approx. 20 cycles per minute.

**Production: 20 Cycles/minute**

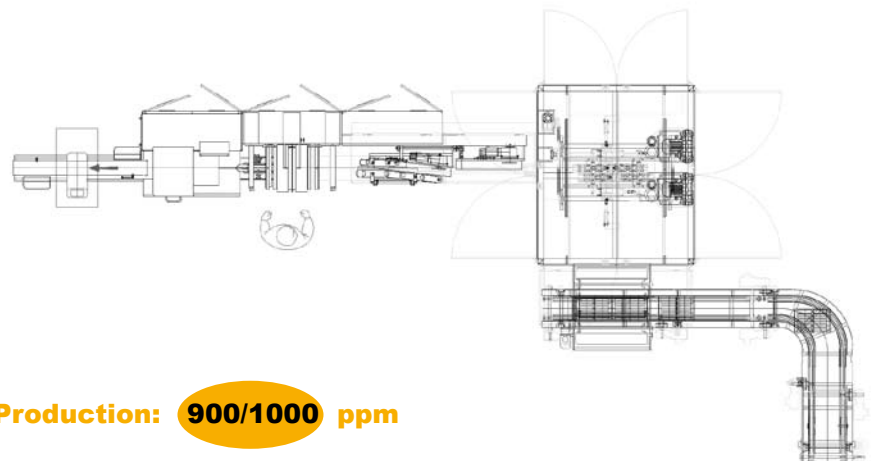
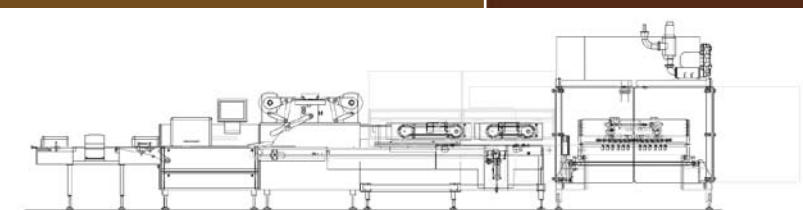
### RESULTS/BENEFITS

With a rising market demand, production could no longer be managed manually nor discontinuously.

As a result of the introduction of the automated system and high-speed packaging line, the bakery has seen an increase in productivity to 900/1000 ppm.

The obtained line efficiency is 98%.

**Efficiency 98 %**



**Production: 900/1000 ppm**

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