



## Solutions for Flow Wrapped Products

## Application expertise, industry experience

Over the last 60 years Molins Langen has developed extensive experience, knowledge, and skills in many applications and industries. Our high speed secondary packaging equipment is utilized in food, pharmaceutical, beverage, and consumer products.

Molins Langen offers a wide range of solutions for cartoning horizontal flow wrapped products such as cereal, protein, nutritional and chocolate bars as well as cookies and snacks. Molins Langen will offer the most suitable solution based on the product characteristics and load patterns.

## Reduced footprint, higher speeds and minimal changeover

When the output from a single flow wrapper is to be collated and loaded into a single cartoner, an intermittent motion horizontal end-load cartoner may be the most efficient solution.

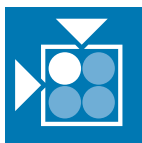
With a smaller overall footprint, lower cost, higher efficiency and increased speed capacity as compared to a top load solution, Molins Langen's horizontal cartoners make the most sense for your investment. A multistage conveying system feeds the servo collator directly and subsequently product loads are pushed into multiple cartons depending on the rates and pack patterns.



VENTO™ Hygienic series.



INFEED



CARTONING



CASE PACKING



PALLETIZING

Input	Equipment	Max output	Carton sizes
Speed input as defined by flow wrapper capabilities	C-1000™ Intermittent motion	Up to 110 cartons / minute	L = 2" / 50 mm - 13" / 330 mm H = 0,5" / 13 mm - 5" / 127 mm D = 4,6" / 118 mm - 14" / 355 mm
Speed input as defined by flow wrapper capabilities	VENTO™ Hygienic series Continuous motion	Up to 240 cartons / minute	L = 2" / 50 mm - 7" / 190 mm H = 0,8" / 20 mm - 4,3" / 110 mm D = 3,3" / 85 mm - 10" / 260 mm

All specifications are dependent on product/carton dimensions and final pack configuration.

## Optimal flexibility in carton type (tray, case, pre-glued), count sizes, and carton sizes

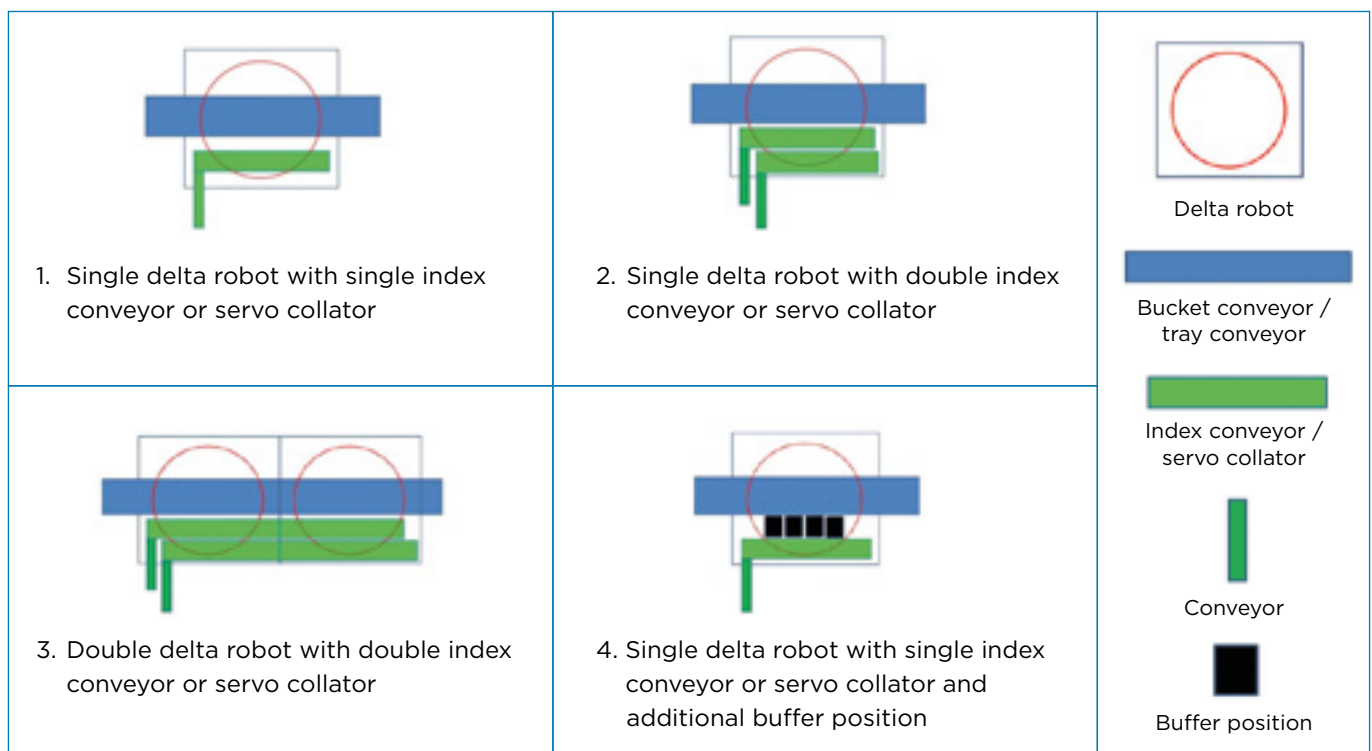
Food manufacturers are continually looking for new and innovative packaging to display their products on the shelf. Langen offers equipment for standard cartons, shelf ready and other innovative packaging styles. Molins Langen provides flexible equipment solutions to suit the ever-changing needs of the market.



Carton type	Input (flow wrapped)	Equipment	Flexpicker configuration	Typical output
<b>Tray / display carton (top load)</b>	Speed inputs as defined by flow wrapper capabilities	Integrated or separate former - delta robot - tray closer for tri-seal or single seal applications	Choice of delta robot configuration (as depicted below)	Single Head - 70 trays/min Dual Head - 140 trays/min
<b>Carton pre-glued (end load)</b>	Speed inputs as defined by flow wrapper capabilities	Delta robot - Cartoner combination (e.g. Molins Langen MAESTRO™ VENTO™ Hygienic Series)	Choice of delta robot configuration (as depicted below)	30-240 cartons / minute

All specifications are dependent on product/carton dimensions and final pack configuration.

## Overview flexpicker modules



### Flexibility in carton types

Molins Langen will provide equipment solutions designed for standard pre-glued cartons, display cartons and shelf ready cartons for all of your flow wrapped products.

### Foils

Molins Langen's extensive knowledge of how different foils affect the performance of the equipment is essential to your success.

### Customization

We provide cutting edge solutions for target applications such as horizontal flow wrapped products. These solutions are under continuous improvement to stay ahead of competition and customer expectations. Our continued focus on flow wrapped products has given us industry knowledge and application expertise. We are also willing to accept new custom innovation challenges that will keep your brand ahead of the competition.

### Clean & hygienic production

The hygienic demands for secondary packaging equipment are increasing. Cleanability, the application of hygienic engineering principles is very important to control microbiological safety. Molins Langen is committed and continues in the development of hygienic machinery.



*All information given in this document is dependent upon final machine specification, infeed arrangement, product type and carton specification.*

