



**Solutions for
pouches and sachets**

Application expertise, industry experience

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

Pouches are 3 or 4 sides sealed small bags. They are produced and filled on a vertical form, fill, and seal (VFFS) machine. Subsequently, the pouches are conveyed, collated, and grouped before being pushed into the carton. Typical pouches are produced on machines with 1 to 4 lanes and 50 - 100 strokes per minute. Depending on the product the pouches are secondary packaged from 1 to 25 pouches per carton.

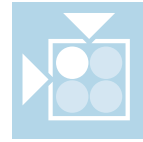
Pouches are very popular portion packs widely used for powdered drinks, pharmaceutical products, and food. Trends in pouches are moving towards smaller batches with larger varieties in flavours and choices. Molins Langen equipment can accept pouches from almost any current pouch making machine making it extremely flexible for intermediate and high speed solutions.

Competence along the line

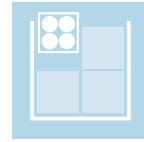
Molins Langen offers integrated solutions from primary packaging equipment to palletizing. Depending on the application a wide range of infeed, collation, and grouping product handling systems followed by a choice of cartoning, casepacking and palletizing systems are offered. Customers can choose to add additional equipment such as check weighers, printers, and metal detectors.



INFEEED



CARTONING



CASE PACKING



PALLETIZING

Cartoning pouches from a single pouch making machine

When pouches need to be collated and subsequently placed in a carton at lower speeds and a single flex count unit in combination with an intermittent cartoner may be the most suitable solution.

Molins Langen has created standards for cartoning pouches stacked, either horizontally or vertically before loading into the carton.

Single poche maker solutions

On-edge stacking

Equipment	MARIN™ + index conveyer
Pouches / min	Max. 400 (W = 60 - 130 mm, H = 5 - 20 mm, L = 80 - 160 mm, weight= 4 - 30 gr)
Cartons / min	Max. 40 (W = 70 - 250 mm, H = 60 - 130 mm, L = 80 - 160 mm)
Pouches / carton	10 - 25

Horizontal stacking

Equipment	MARIN™ + single drop box
Pouches / min	Max. 400 (W = 60 - 130 mm, H = 5 - 20 mm, L = 80 - 160 mm, weight= 4 - 30 gr)
Cartons / min	Max. 60 (W = 60 - 130 mm, H = 25 - 110 mm, L = 80 - 160 mm)
Pouches / carton	1 - 15

Cartoning pouches from a multiple pouch making machine

When pouches come from 2 or 3 pouch making machines and need to be collated and subsequently placed in a carton at high speed, a dual Bomb bay system with a continuous cartoner may be the most suitable solution.

Multiple pouch maker solutions

Horizontal stacking

Equipment	VENTO™ + 2 Bomb bay systems
Pouches / min	Max. 1200 (W = 60 - 130 mm, H = 5 - 20 mm, L = 80 - 160 mm, weight= 4 - 30 gr)
Cartons / min	Max. 400 (W = 60 - 130 mm, H = 25 - 110 mm, L = 80 - 160 mm)
Pouches / carton	3 - 8



Horizontal flow wrap equipment

There is wide range of flow wrappers depending on actors such as product, shelf life, sensitivity to moisture and breakage. The versatility of wrapping equipment is almost as large as the versatility in foils, product sizes, and product counts. Long-dwell wrappers, on-edge wrappers and standard wrappers operate with different speeds and with different precision. Based on the primary equipment and the exact requirements, Molins Langen offers the most suitable combination of infeed, cartoning, and end-of-line equipment.

Foils

Knowledge of foils for pouches is important. Prime food manufacturers apply well defined shelf life strategies when choosing foils. The influence of handling pouches can be a major factor in selecting the right packaging parameters and equipment. Molins Langen vast experience in handling different foils adds significant value to pouch projects.

Application dedication leads to efficiency

At Molins Langen we develop dedicated infeed systems and cartoning machines for carefully selected applications such as pouches. The Molins Langen provides one of the most complete portfolios with the highest efficiencies available in the market.

What could be our standard solutions for high volume?

What solutions for pouches do we have?

End product quality

Pouches are frequently sold in cartons for sale in highly visible places. End product quality is measured amongst such as carton squareness and a scratch less appearance. Molins Langen equipment features dedicated technologies such as carton flight carriers (lugs) and pre-opening to assure optimized carton erection and cartons without dents and scratches. High end-product quality is even assured when using a lower quality (high recycling content) carton board.

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

