



**Solutions for
stick pack
packaging**

Application expertise, industry experience

Over the last 60 years Molins Langen has built an excellent reputation based on extensive experience, knowledge and skills in many applications and industries in the secondary packaging market. Our high speed secondary packaging equipment is found in food, pharmaceutical, beverage, and consumer products manufacturers.

On a global scale, sticks are recognized as the preferred packaging with on-the-go consumers for their portability and convenience. The popular stick pack is widely used for hot and cold instant beverages, pharmaceuticals, spices and sauces, nutraceuticals, baby formula, etc.. Manufacturers appreciate the

improved dosing accuracy, safety, increased production speeds and reduced packaging material costs. The elongated, tube shaped stick packs can save up to 40% of packaging material compared to more traditional forms of single portion packaging forms.

Stick pack packaging lines require intelligent components that offer flexibility and precision while increasing throughput and efficiency of the automated process. For over 10 years Molins Langen has developed stick packaging solutions which are designed to handle the increased productivity, format changes and proficiencies to assure a successful solution that provides maximum flexibility and significant cost savings.

Stick packs in cartons*

MARIN™ + Bomb-bay for sticks with single pusher

Sticks/min	Max. 800	W= 20 - 45 mm W= 0.79" - 1.77"	H= 5 - 20 mm H= 0.20" - 0.79"	L= 90 - 200 mm L= 3.54" - 7.87"	Weight= 2 - 45 gr
Cartons/min	Max. 40	L= 70 - 200 mm L= 2.76" - 7.87"	H= 25 - 110 mm H= 0.98" - 4.33"	D= 90 - 200 mm D= 3.54" - 7.87"	
Sticks/carton	6 - 50				

MARIN™ + Bomb-bay for sticks with double pusher

Sticks/min	Max. 800	W= 20 - 45 mm W= 0.79" - 1.77"	H= 5 - 20 mm H= 0.20" - 0.79"	L= 90 - 200 mm L= 3.54" - 7.87"	Weight= 2 - 45 gr
Cartons/min	Max. 60	L= 70 - 110 mm L= 2.76" - 4.33"	H= 25 - 80 mm H= 0.98" - 3.15"	D= 90 - 200 mm D= 3.54" - 7.87"	
Sticks/carton	6 - 20 (Carton format is leading)				

VENTO™ H + 1 bomb-bay for sticks

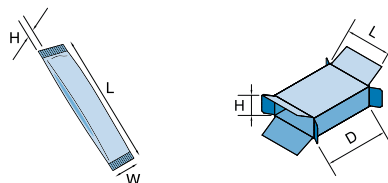
Sticks/min	Max. 800	W= 20 - 45 mm W= 0.79" - 1.77"	H= 5 - 20 mm H= 0.20" - 0.79"	L= 90 - 200 mm L= 3.54" - 7.87"	Weight= 2 - 45 gr
Cartons/min	Max. 100	L= 70 - 140 mm L= 2.76" - 5.51"	H= 25 - 90 mm H= 0.98" - 3.54"	D= 95 - 200 mm D= 3.74" - 7.87"	
Sticks/carton	6 - 50				

VENTO™ H + 2 bomb-bays for sticks

Sticks/min	Max 1260	W= 20 - 45 mm W= 0.79" - 1.77"	H= 5 - 20 mm H= 0.20" - 0.79"	L= 90 - 200 mm L= 3.54" - 7.87"	Weight= 2 - 45 gr
Cartons/min	Max. 180	L= 70 - 140 mm L= 2.76" - 5.51"	H= 25 - 90 mm H= 0.98" - 3.54"	D= 95 - 200 mm D= 3.74" - 7.87"	
Sticks/carton	6 - 50				

VENTO™ H + 3 bomb-bays for sticks

Sticks/min	Max. 1890	W= 20 - 45 mm W= 0.79" - 1.77"	H= 5 - 20 mm H= 0.20" - 0.79"	L= 90 - 200 mm L= 3.54" - 7.87"	Weight= 2 - 45 gr
Cartons/min	Max. 180	L= 70 - 140 mm L= 2.76" - 5.51"	H= 25 - 90 mm H= 0.98" - 3.54"	D= 95 - 200 mm D= 3.74" - 7.87"	
Sticks/carton	6 - 50				



* Restrictions apply to combinations of stick's and carton's dimensions and counts.

Sticks in cartons

With extensive knowledge and experience in developing systems to handle stick packs from low speed semi-automatic to high speed custom applications, Molins Langen is able to help you to reduce costs and improve performance of your secondary packaging lines. Utilizing high quality standards to satisfy increasing demands of production, Molins Langen has developed the industry standard.

Sticks in bags

As flexible packaging is a growing trend, many brands also consider flexibles for their secondary packaging style as it provides unique printing capabilities and cost savings. Molins Langen developed new equipment standards to help its customers automate the process for this upcoming packaging style. We offer semi-automated as well as completely automated lines for packing sticks into bags to meet your requirements.



Product content

Sticks are generally filled with powders, granules, or liquids. When produced from VFFS equipment, product contents settle at the bottom of the stick packs. Depending on the content and other packaging specifications equalizing units should be used.

For instance, when secondary packaging sticks are filled with liquids, the viscosity of the liquid can have a major influence on product handling. Molins Langen therefore continuously invests in the development of new technologies for optimal product handling with different product content.

Stick pack materials

Stick packs are primarily made from paper, metalized foil or aluminum foil; each material type has its own characteristics and need a different approach during the packaging process. Molins Langen has the knowledge and experience necessary to handle each type of material to assure optimal output.



Figure: Solution for sticks in bags with fully automated bagger and with manual bagging station.

Unique features for stick pack handling

Flexcount technology

Whether you are adding a new product count, or simply would like a few extra promotional bonus packs, our Flexcount technology will provide you with the exact number required. This unique counting technology assures that you have a precise pack count while offering the flexibility of adding individual counts when needed.



Sampling unit

For quality control, Molins Langen offers a simple sampling feature in its stick pack solutions. This feature provides a single sample from each lane of the VFFS without interrupting production.

Sticks in Bulk

As an optional item Molins Langen developed a bulk loading feature. This bypass solution offers the added ability to produce a bulk pack for special requirements.

Great flexibility in format changeovers

Different market segments often have unique demands. This requires significant flexibility in packaging machinery to handle these on a single machine. Our stick pack solutions provide quick and easy changeovers that are repeatable and adaptable to the different formats, while maintaining high reliability and product control.



Competence along the line

Molins Langen offers integrated solutions from the primary packaging equipment through to palletizing. From infeed and collation systems, to cartoning, case packing and palletizing, we work to exceed customer expectations and help our customers achieve a competitive advantage. With the options to integrate check weighers, printers and metal detection, Langen can meet virtually any requirement. With this integration excellence Molins Langen can be your one stop shop for the complete automation of your secondary packaging line.



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

