

Equipment for Flexible Packaging



Scholle IPN



Bossar

Simply **Flexible**[™]

Simply Flexible.

Simply Flexible

Flexible Packaging Solutions

Scholle IPN and Bossar's mission is simple; to help the world's leading brands deliver their products in the best way possible using a diverse range of total flexible packaging solutions. We are tenacious innovators with a long history of applying technology in film, fitments, and equipment to solve difficult packaging problems.

Our products are manufactured everywhere so we can serve anywhere with a flexible, "can-do" attitude. We believe we are a critical partner to creating and maintaining a sustainable future and do things differently to meet these important goals.

Scholle IPN and Bossar are many things. But above all, we are Simply Flexible.





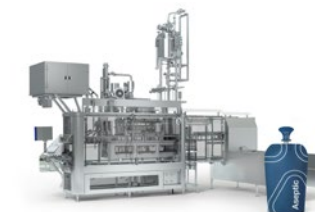
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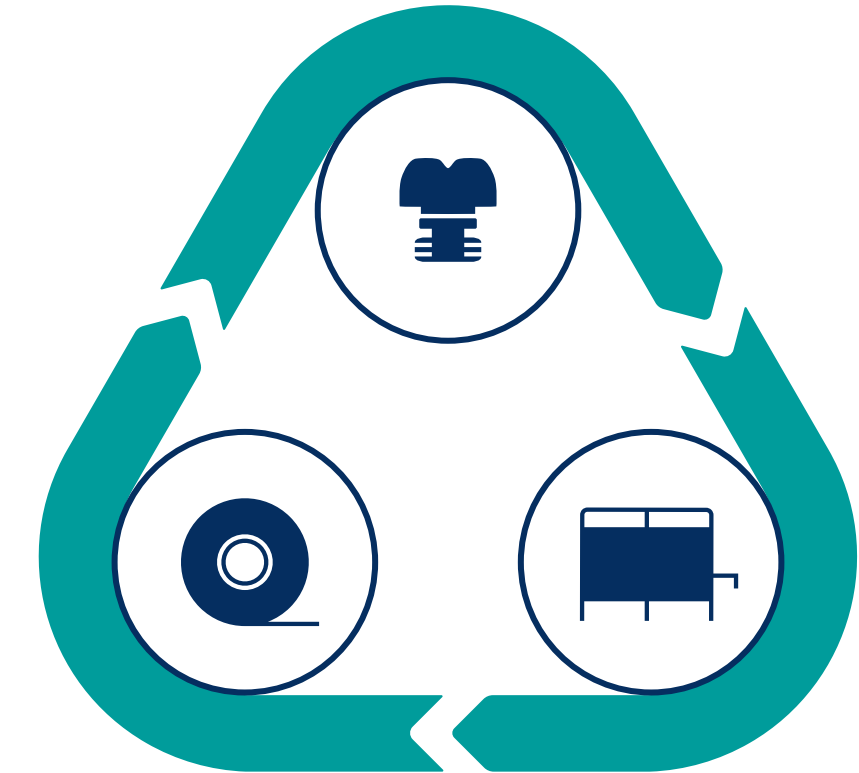


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Film. Fitment. Equipment.

A Total Packaging Solution

Our mission is simple; to help the world's leading brands deliver their products in the best way possible. We do this by combining films, fitments, and equipment to help you go-to-market simply and quickly with a total flexible packaging solution tailored to your specific needs.



Film

- We extrude, laminate, and print flexible, barrier films designed to meet your rigorous product specifications.
- We have one-to nine-layer films, as well as recyclable, mono-material structures.

Fitment

- We injection mold and assemble fitments designed to provide an ergonomic interaction with your product for all ages and abilities.
- Our taps, connectors, caps are designed to suit your needs –whether that's on a retail shelf, a fast-paced restaurant operation, or industrial use.

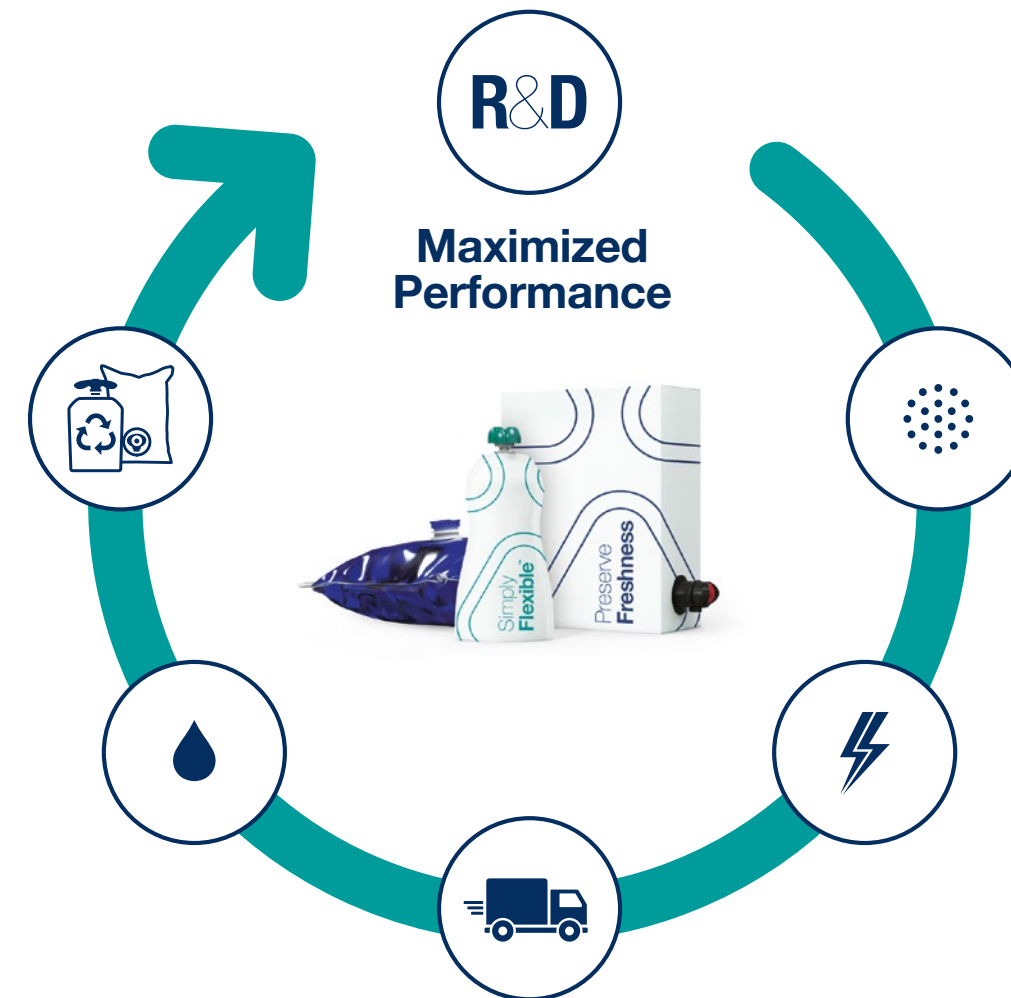
Equipment

- We design and manufacture equipment for both pre-made and form-fill-seal style bag-in-box and pouch filling. Whether you operate a startup, or a full-scale, automated operation, we have a solution for you.
- Our filling equipment offers great flexibility in process compatibility from ambient, to ultra-clean, to aseptic.

Flexible Efficiency.

Why Choose Flexible Packaging? Effective Use of Resources

- R&D** **Maximized performance** due to unrivalled quality design and engineering.
- Less raw material** and natural resources used during production.
- Less energy** required during production and transportation.
- Less transportation** required with more-efficient logistics.
- Less product waste** with excellent shelf life capabilities to keep product fresher, longer.
- Less package waste** with optimized product-to-pack ratio and recyclable options.



The Scholle IPN Difference.

The Total Packaging Solution (TPS)

Scholle IPN and Bossar packaging solutions at their best



The Brands We Serve





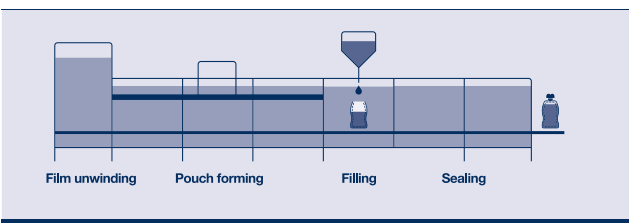
What We Offer

From Roll

HFFS +Efficiency

Horizontal form-fill-seal machines (HFFS) form and seal pre-printed rollstock film into a pouch shape, fill product through the open pouch top, and seal fitments to the pouch all in a single machine.

BMS BCS BHS BMK BASIC

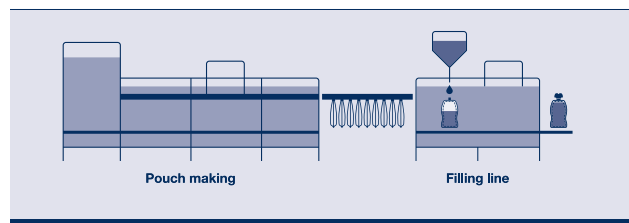


Pre-Made

HYBRID +Flexibility

The Hybrid manufacturing model for flexible packaging separates forming and sealing from the filling step. This allows manufacturers to combine the efficiency of pouch and bag making on-site with the filling accuracy and versatility of a pre-made package.

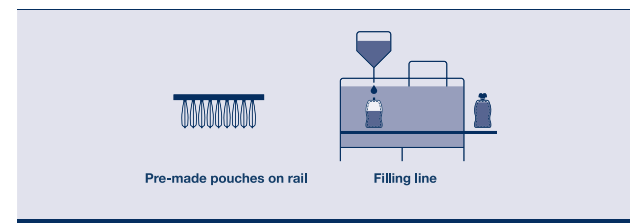
BPM + BCF FSF



PRE-MADE +Simplicity

Keep it simple. Get your pouches or bag-in-box and fill them with your product. You can focus on formulating and producing a winning product and leave the packaging manufacturing to us.

BCF SureFill®





The HFFS Difference + Efficiency

- Consistent packing rate.
- Pouches and sachets made using HFFS technology are less expensive than pre-made ones.
- Increased production rate compared to the pre-made model.
- Easy and quick cleaning regimen between production batches.
- Offers packaging versatility with production options of sachets and pouches with—and without—fitments.

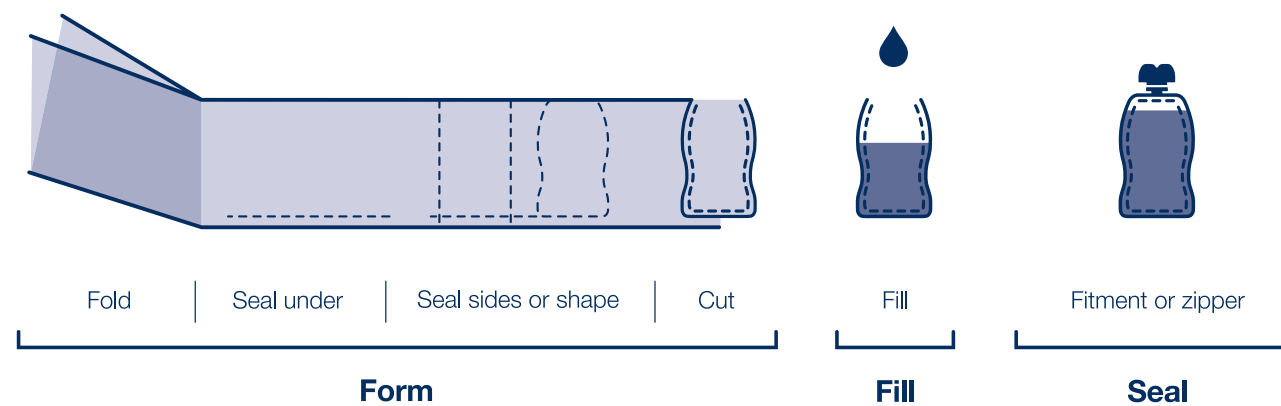
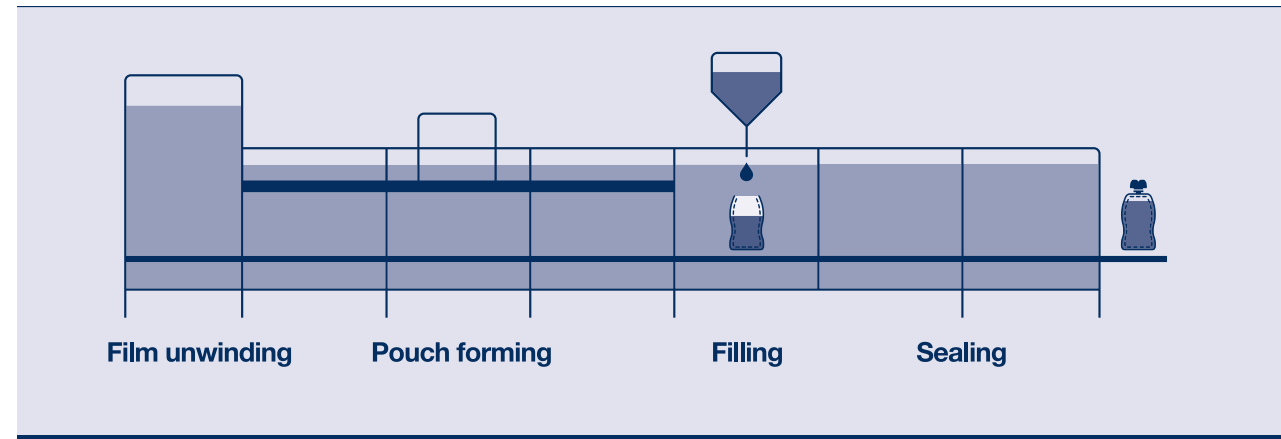
HFFS +Efficiency

Bossar has the widest range of Horizontal form-fill-seal machines in the market. Our machines cover all the applications and are customized to be adapted to our customers' needs. Besides the traditional mechanical machines, we have the BMS series, the only complete full-servo series in the market. The design is based on the modular frame construction, composed of three independent modules: unwinder, pouch forming and dosing-sealing.

These modules are available in several versions according to the product to be filled. This way we always offer our customers the machines that better suit their requirements.

How It Works

Horizontal form-fill-seal machines (HFFS) form and seal pre-printed rollstock film into a pouch shape, fill product through the open pouch top, and seal fitments to the pouch all in a single machine.



HFFS Series

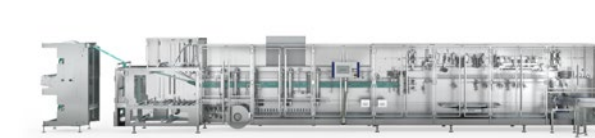
BMS Bossar Motion Series Full servo control

The BMS produces pouches with excellent seals, actually used for the production of pre-made pouches. Moreover, these machines produce pouches with a huge number of designs and shapes for a better product differentiation on the shelf.



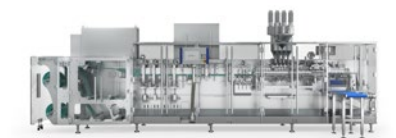
BCS Bossar Carousel System Big formats, quick change-over

Unique pouch handling system consisting of grippers which hold them throughout the process. The grippers can be adjusted to a new format size in a matter of minutes by means of the HMI touch screen.



BHS Bossar High Speed High-speed sachet machine

Engineered for flat sachet operation, focusing mostly on pharmaceutical and cosmetic markets. The internal drives and servo motors are completely isolated from the outside, thus avoiding contact with any type of product.



BMK Bossar Modular Kit Modular innovation

Modular mechanical HFFS machines. All the models of our BMK range have standardized groups and increased machine features so that they can be adapted for any kind of filling system or fitment.



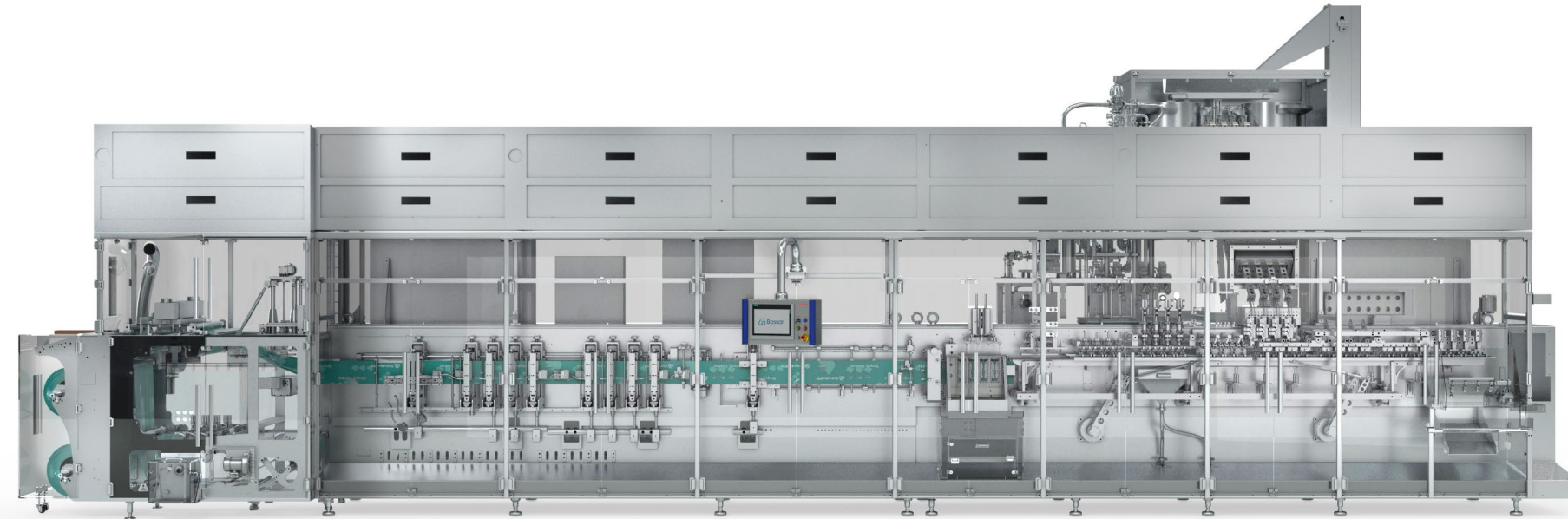
BASIC Compact. Small. HFFS.

Basic and versatile. The intermittent HFFS machines from the Basic series are extremely versatile and capable of manufacturing a wide range of format sizes.



BMS Bossar Motion Series

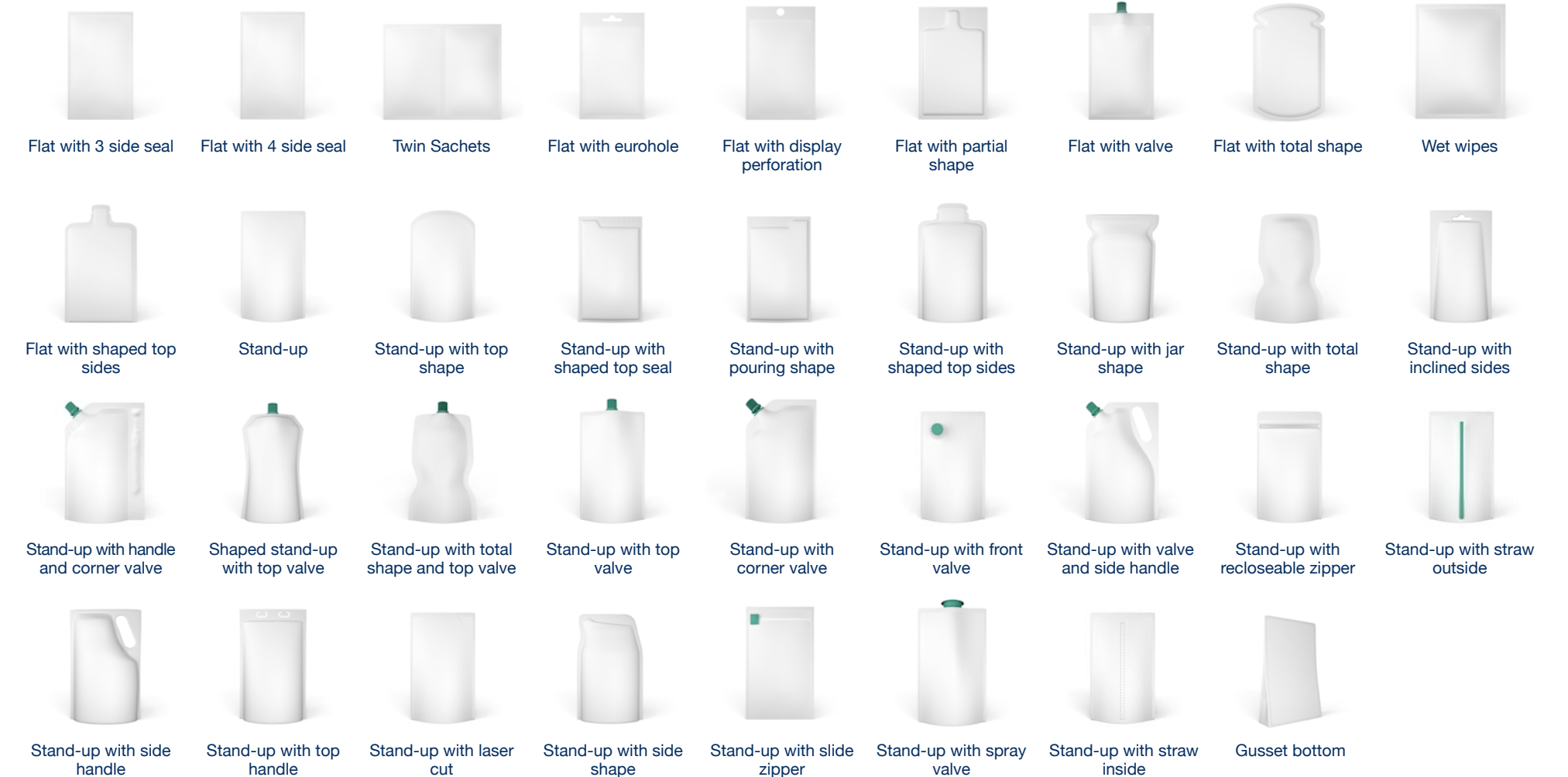
Full servo control



Highest quality pouches. Easy to operate & reliable. Minimum maintenance required.

The BMS features a transmission system, a Bossar patented invention, which enables multiple independent axis movements. This technology substitutes the traditional and standard single cam shaft, and therefore has significantly fewer mechanical parts. The control is provided by means of an intuitive touch screen HMI, facilitating format change-over and adaptability to multiple formats. This is made possible by the servo technology, which enables independent movements of machine parts.

BMS Packaging Options



BMS Benefits

How can the BMS benefit your operations?

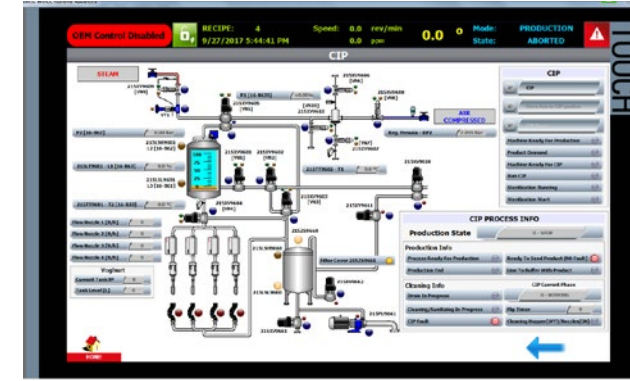
Less consumption, increased savings, perfect sealing:

- Minimal film waste during machine adjustments.
- Bossar continuous tension adjustment resulting in identical and constant seal width.
- Manageable and operative by means of an extremely intuitive touch-screen HMI.
- Correcting roll printing errors due to eye mark deviation, reducing film waste.
- Independent pouch centering.
- Reduced change-over time.
- Less mechanical parts = less maintenance.
- Wide variety in pouch shapes.

Details



Cutting die allows for pouches with total shape.



HMI display includes instruction manual and troubleshooting.

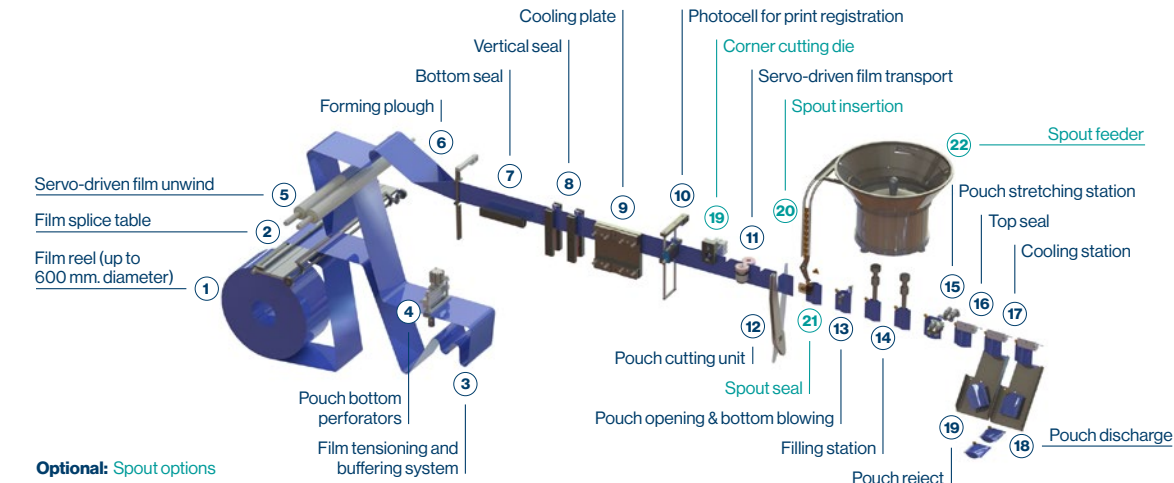
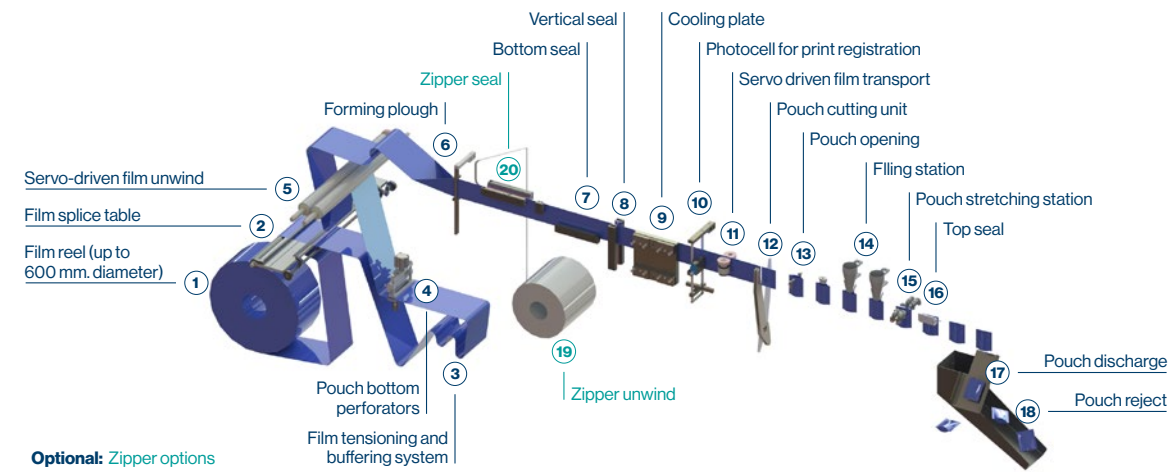


Parallel motion of the vertical sealing bars enables improved sealing quality and easier maintenance.

BMS Quality Sealing

- Complete sealing integrity with attractive sealing look.
- The parallel motion of sealing jaws allows precise control on critical factors: Pressure, Time, and Temperature.
- BMS machines present a minimum distance between sealers, reducing closing and opening time of jaws during the sealing process.
- Optimized spout sealing
- Devices for easier, repeatable changeovers resulting in higher efficiency

Operational Drawing

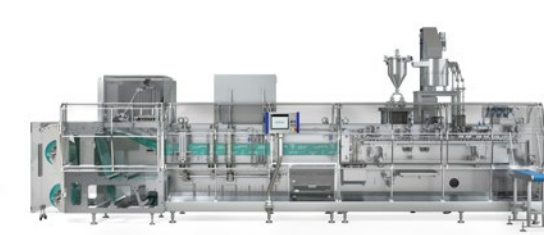


BMS Technical Features

Indicative values. For different format sizes, please consult.

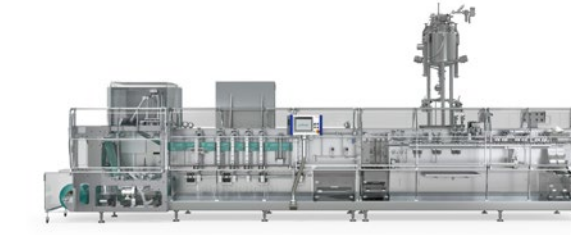
Model	Execution	Format Range (mm) WxH				Maximum Volume (c.c.)	Filling Speed (Pouches per minute)	Machine Dimensions (L x W x H)
		Minimum	Gusset	Maximum	Gusset			
BMS 1.6	FLT-1	60 x 80	-	160 x 300	-	790	70	L 7700 mm
	FLT-2	60 x 80	-	80 x 240	-	80	140	W 1560 mm
	STU-1	70 x 80	20	160 x 300	48	1200	70	H 2100 mm
	STU-2	70 x 80	20	80 x 240	25	160	140	
BMS 2.2	FLT-1	80 x 80	-	220 x 300	-	2000	70	L 8980 mm
	FLT-2	80 x 80	-	110 x 300	-	500	140	W 1560 mm
	STU-1	80 x 80	25	220 x 300	48	2500	70	H 2100 mm
	STU-2	80 x 80	25	110 x 300	32	800	140	
BMS 2.6	FLT-1	100 x 80	-	260 x 300	-	2000	70	L 9480 mm
	FLT-2	80 x 80	-	130 x 300	-	500	140	W 1560 mm
	STU-1	100 x 100	32	260 x 300	52,5	2500	70	H 2100 mm
	STU-2	80 x 80	20	130 x 300	41	800	140	
BMS 3.3	FLT-2	80 x 80	-	165 x 300	-	800	130	L 9940 mm
	FLT-3	80 x 80	-	110 x 300	-	400	180	W 1560 mm
	STU-2	80 x 80	25	165 x 300	48	1500	130	H 2100 mm
	STU-3	80 x 80	25	110 x 300	32	525	180	
BMS 4.2	FLT-2	120 x 120	-	210 x 300	-	1150	130	L 12300 mm
	FLT-4	80 x 120	-	100 x 300	-	350	240	W 1560 mm
	STU-2	120 x 120	40	210 x 300	50	1600	130	H 2100 mm
	STU-4	80 x 120	25	100 x 300	32	475	240	

BMS Range



BMS 1.6

The HFFS machine BMS 1.6 can work in simplex and duplex, forming and filling pouches within a range of 60 x 80 mm. and 160 x 300 mm. It can reach an output of 180 pouches per minute and can fill up to 1,200 cc of product.



BMS 2.2

The HFFS machine BMS 2.2 can work in simplex and duplex, forming and filling pouches within a range of 80 x 80 mm. and 220 x 300 mm. It can reach an output of 180 pouches per minute and can fill up to 2,000 cc of product.



BMS 2.6

The HFFS machine BMS 2.6 can work in simplex and duplex, forming and filling pouches within a range of 80 x 80 mm. and 260 x 300 mm. It can reach an output of 160 pouches per minute and can fill up to 2,500 cc of product.



BMS 3.3

The HFFS machine BMS 3.3 can work in simplex, duplex and triplex, forming and filling pouches within a range of 80 x 80 mm. and 165 x 300 mm. It can reach an output of 160 pouches per minute and can fill up to 1,500 cc of product.

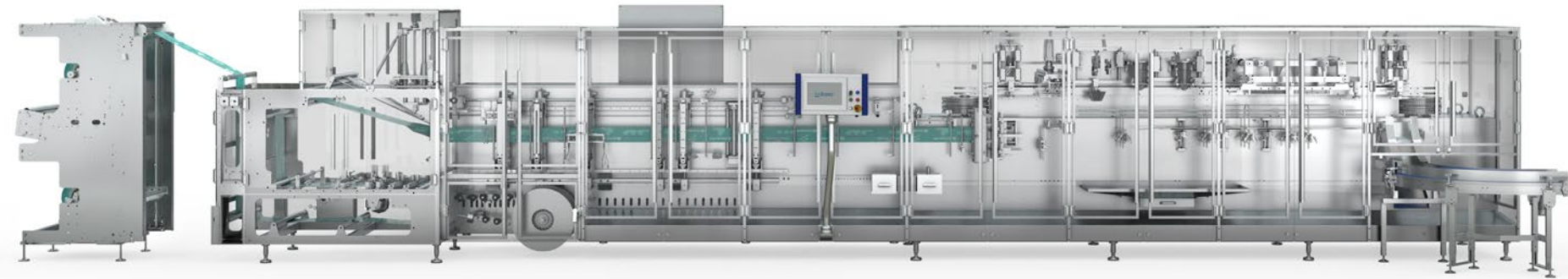


BMS 4.2

The HFFS machine BMS 4.2 can work in duplex and quadruplex, forming and filling pouches within a range of 80 x 120 mm. and 210 x 300 mm. It can reach an output of 240 pouches per minute and can fill up to 1,600 cc of product.

BCS Bossar Carousel System

Big formats, quick change-over



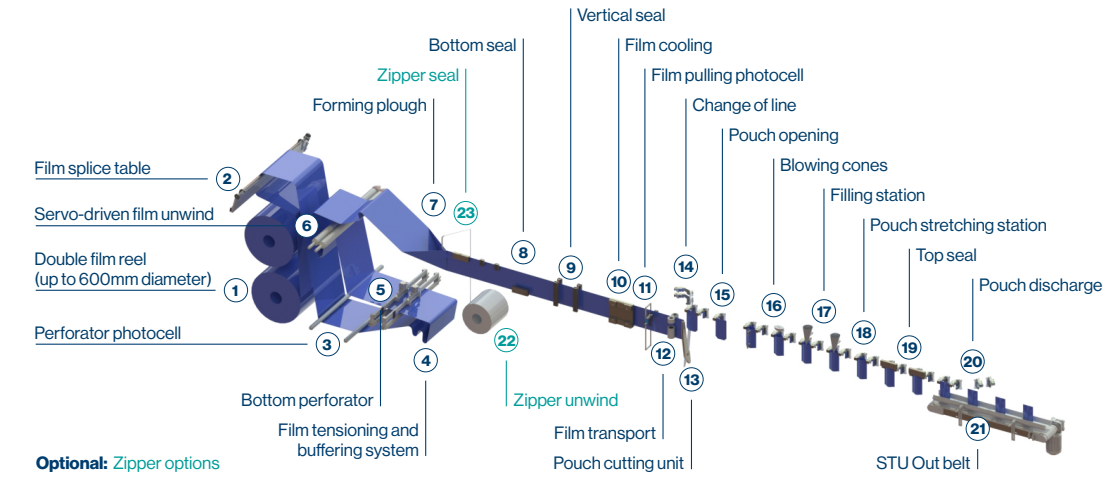
Designed for big formats and quick change-over

The carousel transport system, patented by Bossar, is the ideal technical solution for heavy and large-volume packaging formats. Designed with special focus for solid products. Big format pouches manufactured on the BCS usually feature zippers to open and close the packaging.

Benefits

- Unique pouch handling system consisting of grippers holds them throughout the process. The grippers can be adjusted to a new format size in a matter of minutes by means of the HMI touch screen.
- The BCS fills and seals pouches within a range of 100 x 150 mm. and 300 x 400 mm. It can reach an output of 120 pouches per minute and can fill up to 6 liters of product.
- Fully automatic changeover.

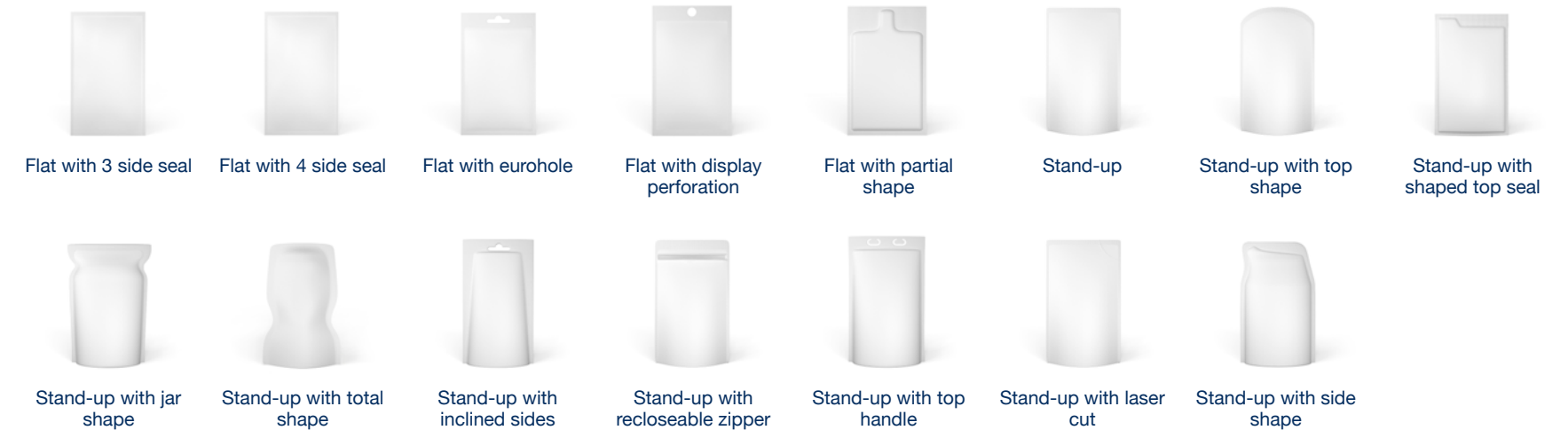
BCS Operational Drawing



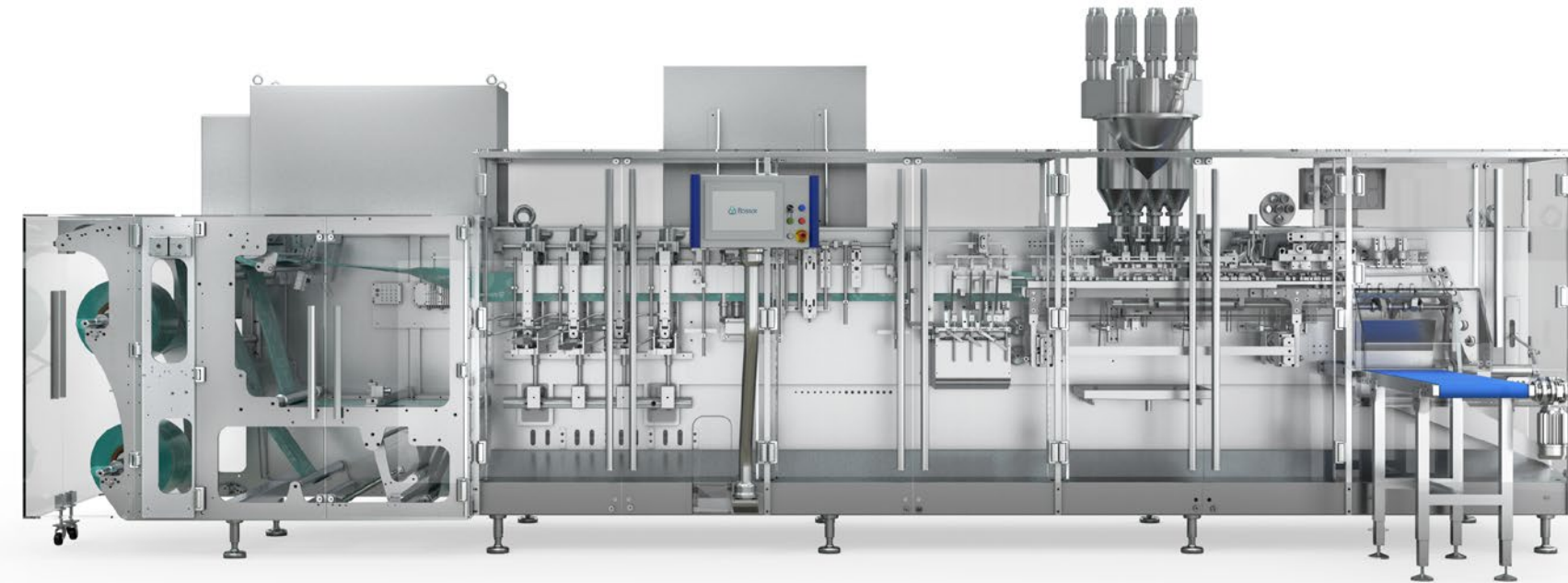
Details



Pouch line changeover.



BHS Bossar High Speed High-speed sachet machine



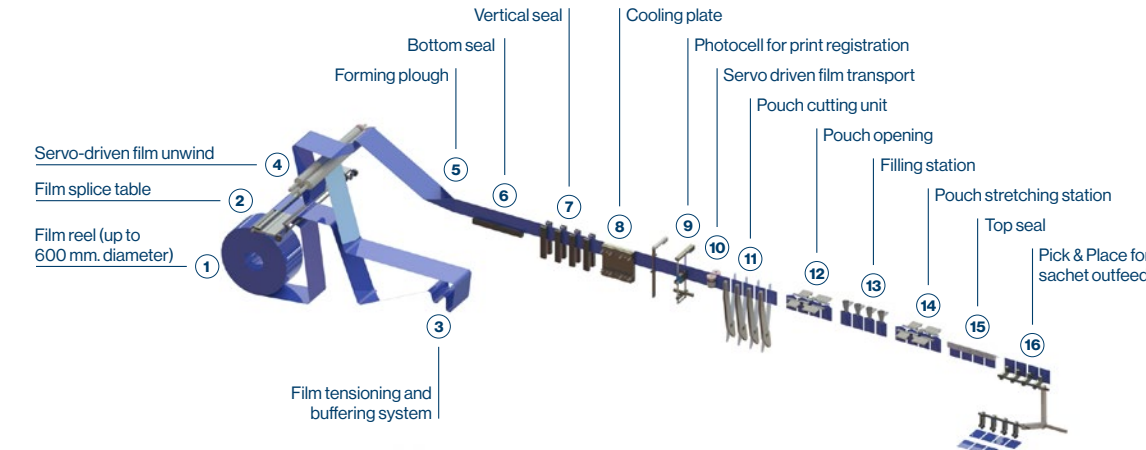
BHS Sanitary Design.

Due to its design and features, the BHS machine is naturally more oriented to the pharmaceutical and cosmetic markets. The internal drives and servo motors are completely isolated from the outside, thus avoiding contact with any type of product. The modular structure of the machine design allows configuration of the equipment to produce sachets in duplex, triplex or quadruplex execution, all according to customer requirements.

Execution	Format Range (mm) WxH		Max. Volume (c.c.)	Filling Speed (Pouches per minute)
	Minimum	Maximum		
BHS 2.8	50 x 60	70 x 130	35	360
BHS 3.2	60 x 80	80 x 130	50	360
BHS 3.8	80 x 120	95 x 180	100	300

Indicative values. For different format sizes, please consult.

BHS Operational Drawing

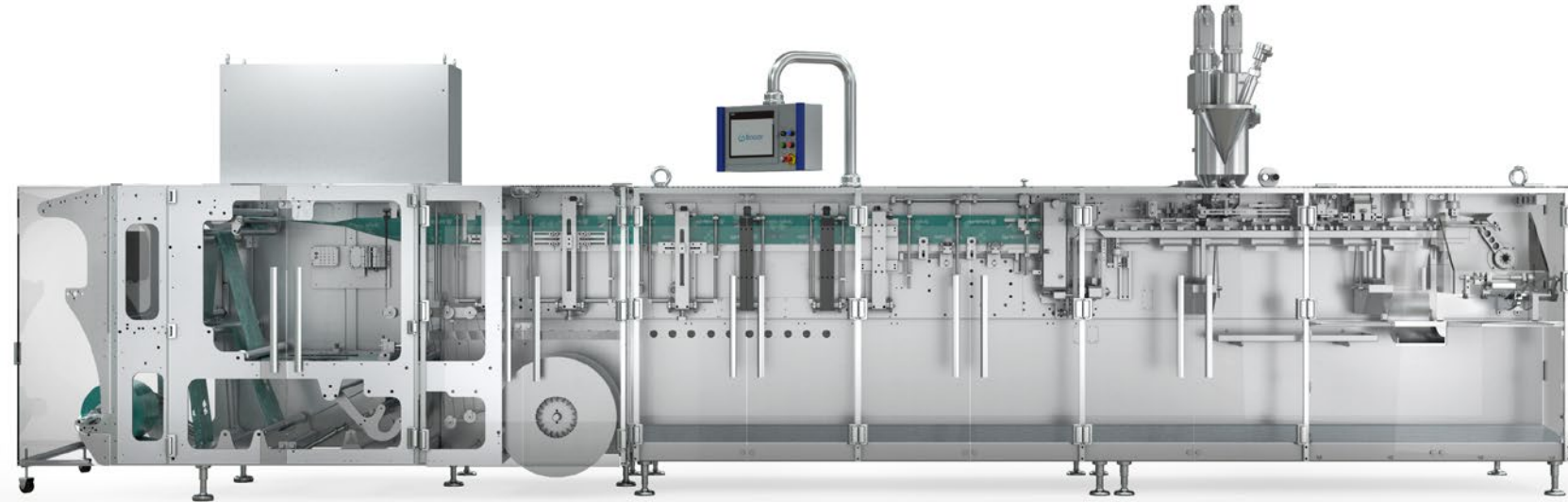


Benefits

- Low maintenance costs: Because the BHS does not require oils or greases, the maintenance time of these equipment types is considerably reduced.
- Flexibility: Optimized format change time, and possibility of working several formats on the same machine.
- Accessibility: Most adjustments are made from the HMI screen without having to operate or manipulate mechanical parts of the machine.
- High Speed: Speed is a difference in these types of machines, reaching a production speed of up to 300 sachets per minute.

BMK Bossar Modular Kit

Modular innovation

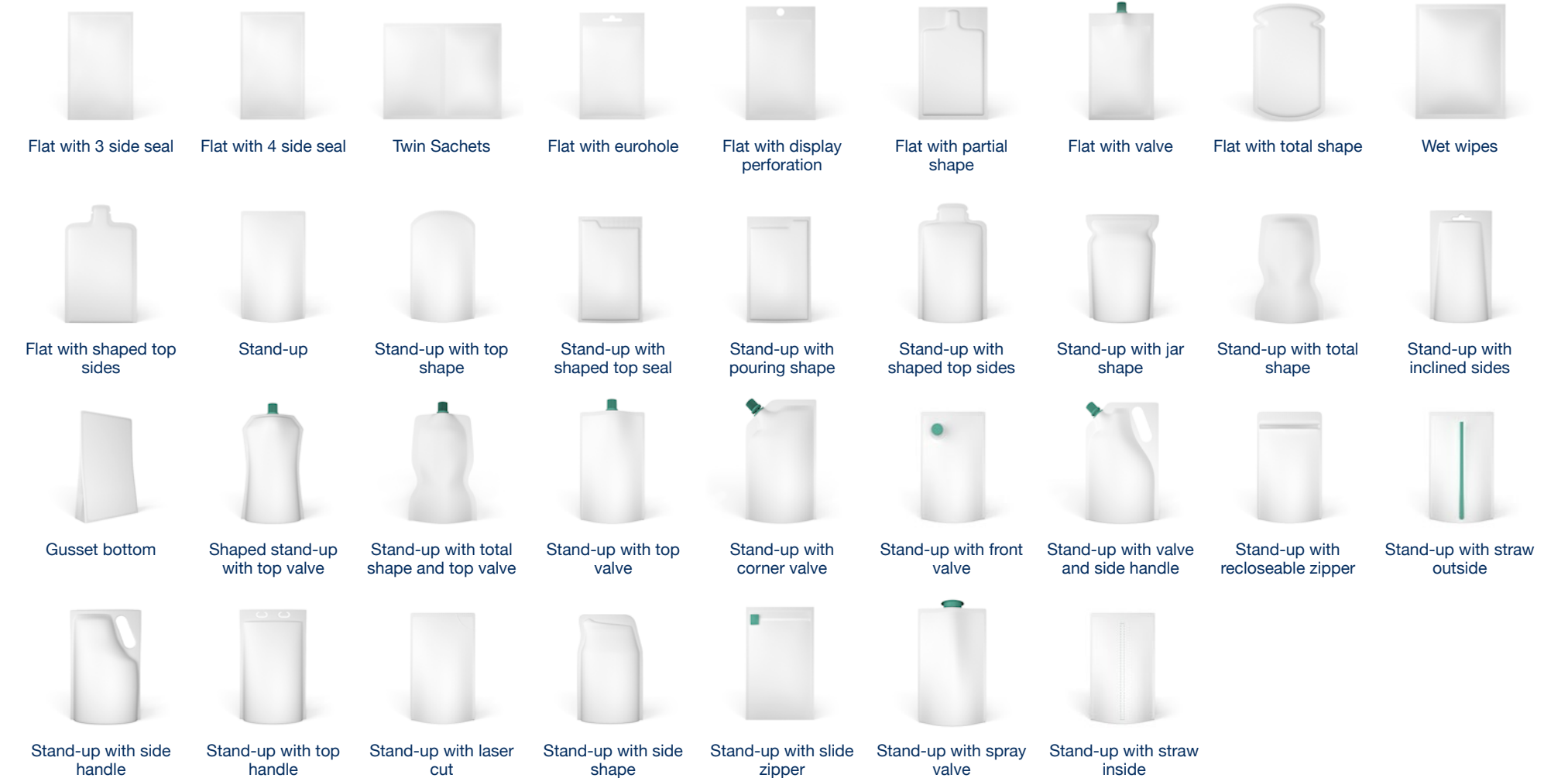


BMK series: pioneer in modular innovation.

The basic design of the BMK series is based on the modular frame construction composed of three independent modules:

1. Unwind Module.
2. Pouch Forming Module.
3. Filling Module.

BMK Packaging Options



BMK Details

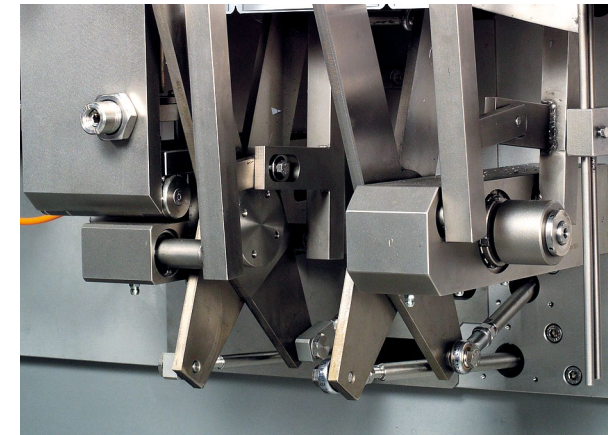
1. Dosing units for liquids available with different nozzles for any kind of product. Hygienic design and easy-to-dismantle filling system with clamps. Bossar HFFS machines are suitable to work with several kinds of dosing systems.
2. Top sealing and cooling groups with 180° folding hinge for easy cleaning. Sealing jaws adjustments are not required during the change of the sealing bars. Removable walking beam allows a fast format changeover.
3. Cutting device, gripper, and servomotor film pulling system are automatically adjusted from the machine touchscreen with only one touch, thus ensuring a quicker format change.
4. Vertical sealing group equipped with motorized adjustment for size, through an intuitive touch screen. By so doing, the sealing jaws temperature can be individually controlled.



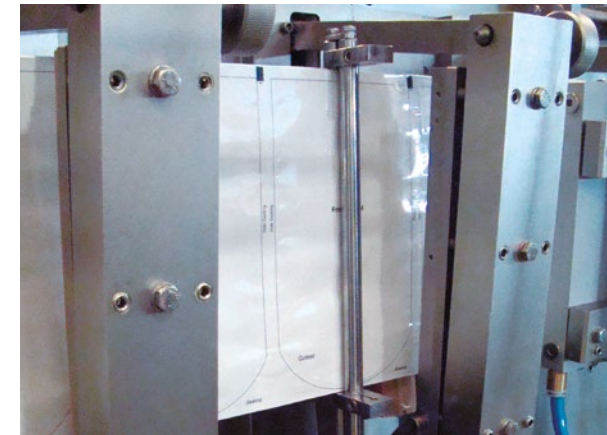
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2



3

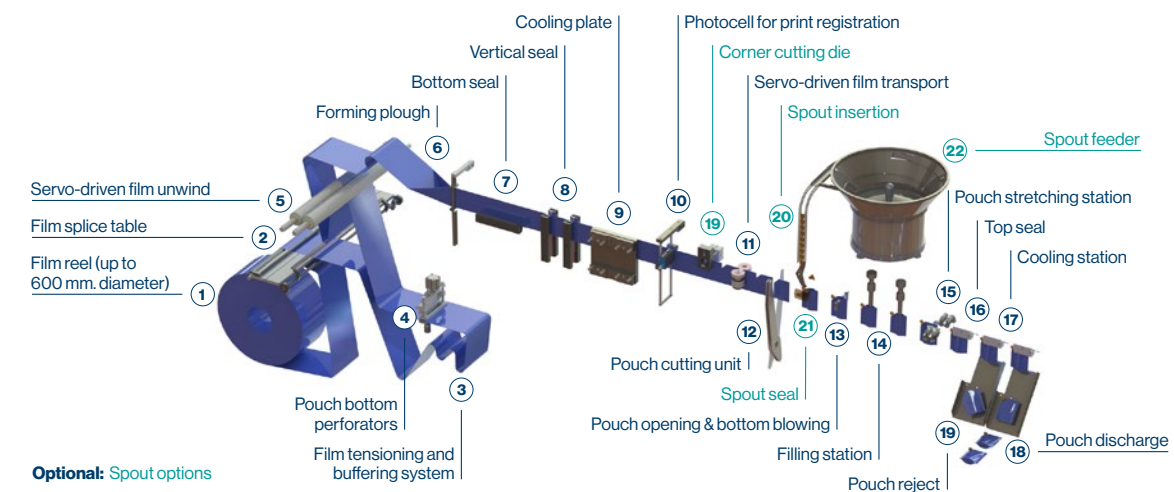
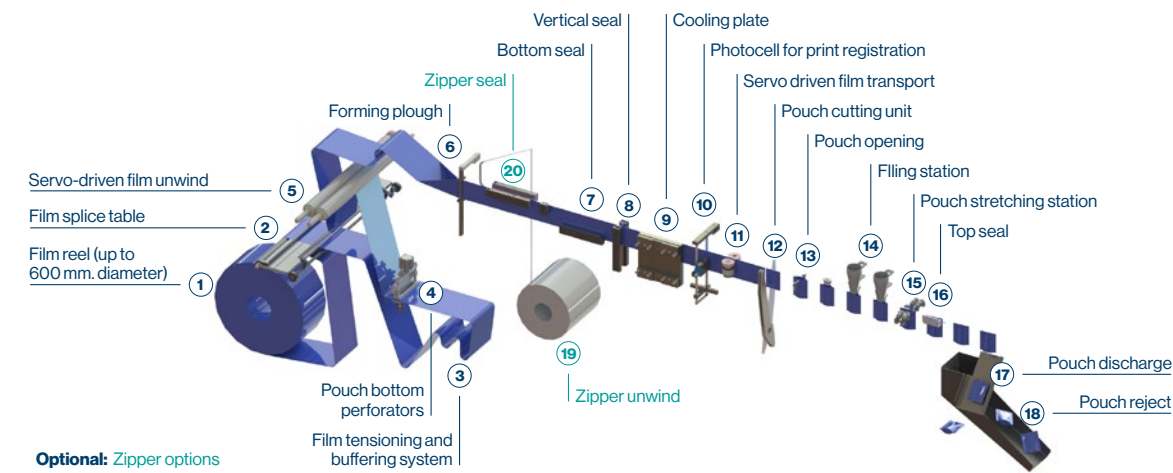


4

BMK Benefits

- All the models of our BMK range have standardized groups and increased machine features so that they can be adapted for any kind of filling system or fitment.
- After evaluating the product characteristics and the application, our engineering department recommends the most suitable dosing unit.
- The Bossar BMK machines are equipped with two filling stations that enable the filling of more than one product into the same pouch.
- Bossar machines are equipped for the insertion of straws, spouts or zippers in the pouches.

Operational Drawing



BMK Technical Features

Indicative values. For different format sizes, please consult.

Model	Execution	Format Range (mm) WxH				Maximum Volume (c.c.)	Filling Speed (Pouches per minute)	Machine Dimensions (L x W x H)
		Minimum	Gusset	Maximum	Gusset			
BMK 1400	FLT-1	70 x 80	-	140 x 230	-	430	100	L 5560 mm
	FLT-2	50 x 80	-	70 x 230	-	60	200	W 1580 mm
	STU-1	70 x 80	20	140 x 230	44	650	80	H 2220 mm
	STU-2	60 x 80	20	70 x 230	20	130	160	
BMK 2000	FLT-1	80 x 80	-	200 x 300	-	1050	90	L 6580 mm
	FLT-2	60 x 80	-	100 x 300	-	350	180	W 1580 mm
	STU-1	80 x 80	25	200 x 300	48	1500	80	H 2220 mm
	STU-2	60 x 60	20	100 x 300	32	475	160	
BMK 2600	FLT-1	130 x 130	-	200 x 300*	-	1050	80	L 7780 mm
	FLT-2	65 x 80	-	130 x 300	-	500	160	W 1580 mm
	STU-1	130 x 130	30	200 x 300*	48	1500	70	H 2220 mm
	STU-2	70 x 80	20	130 x 300	41	800	140	
BMK 3300	FLT-1	135 x 135	-	200 x 300*	-	1050	60	L 9000 mm
	FLT-2	75 x 80	-	165 x 300	-	850	120	W 1580 mm
	STU-1	135 x 135	40	200 x 300*	48	1500	60	H 2220 mm
	STU-2	75 x 80	20	165 x 300	48	1100	120	

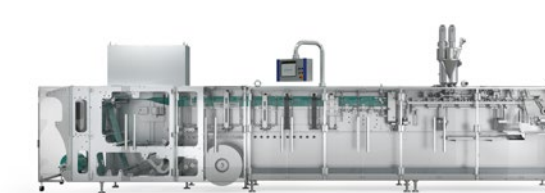
*Width over 200mm ask for availability.

BMK Range



BMK 1400

Bossar model BMK 1400 forms and fills pouches within a range from 50 x 80 mm. to 140 x 230 mm. It can reach an output of 200 pouches per minute and fill up to 650 cc of product.



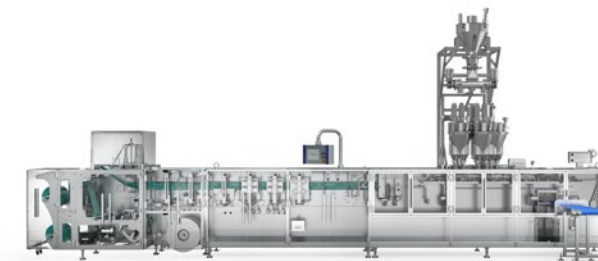
BMK 2000

Bossar machine BMK 2000 forms and fills pouches within a range from 60 x 80 mm. to 200 x 300 mm. It can reach an output of 180 pouches per minute and fill up to 1,500 cc of product.



BMK 2600

Bossar model BMK 2600 forms and fills pouches within a range from 65 x 80 mm. to 200 x 300 mm. It can reach an output of 160 pouches per minute and fill up to 1,500 cc of product in simplex and 750 cc in duplex.



BMK 3300

Bossar model BMK 3300 forms and fills pouches within a range of 75 x 80 mm and 200 x 300 mm, it can reach an output of 120 pouches per minute and can fill up to 1,500 cc of product in simplex and 1,100 cc in duplex.

BASIC

Compact. Small. HFFS.



Small Format Solutions.

Basic and versatile. The intermittent HFFS machines from the Basic series are extremely versatile and capable of manufacturing a wide range of format sizes.

B Series Range

B 1600

Versatility for medium-format solutions

B 1600

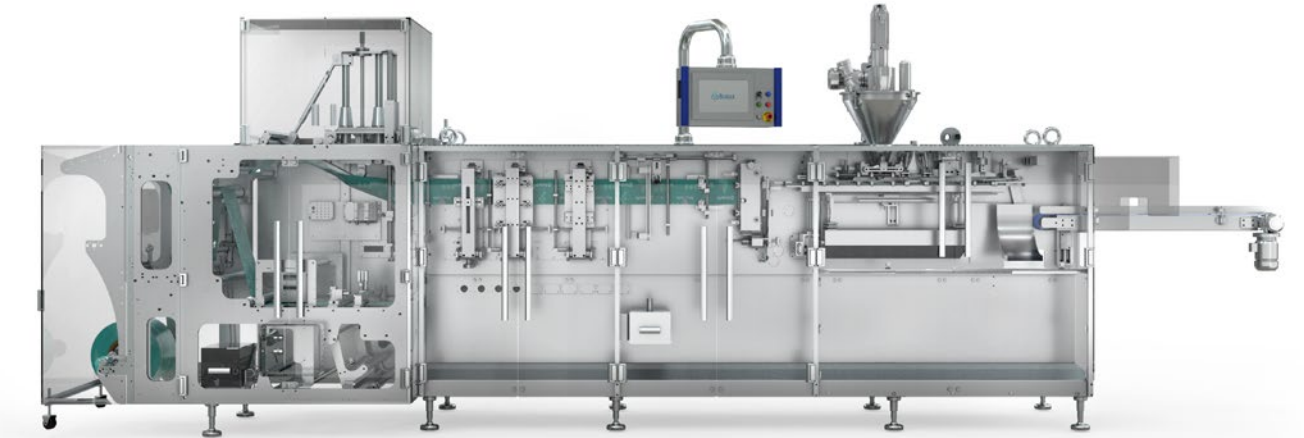
Find further information on pages 41 - 43.

B 1400

Find further information on pages 44 - 45.

B 2800 up to B 3800

From B 2800 up to B 3800, these other available models give the possibility to run formats ranging from 50x80mm up to 125x180mm and volumes from 35cc up to 200cc. Triplex and quadruplex executions also available.

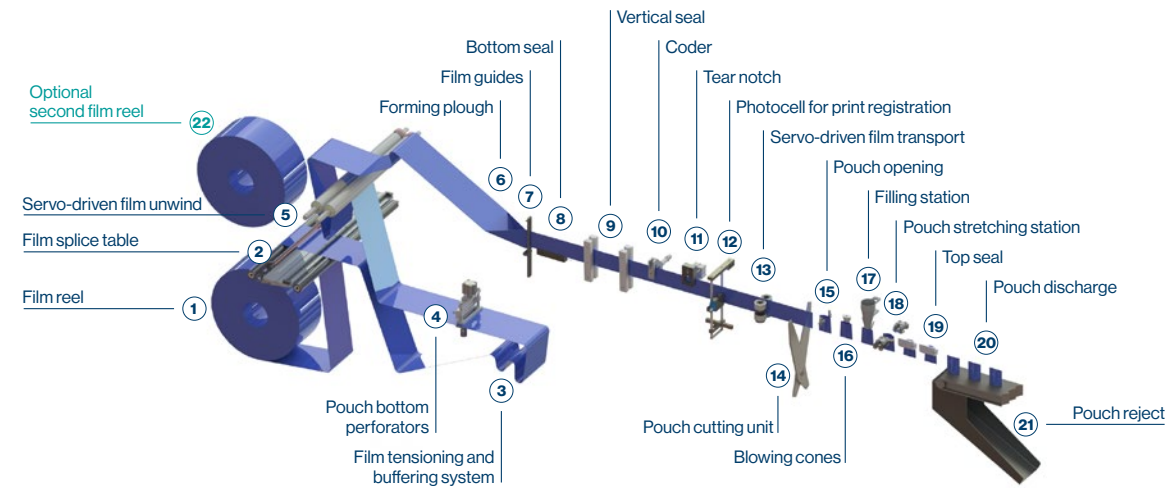


**Adaptable to all dosing systems, enabling the filling of multiple types of products.
Film pulling by means of servo engines.**

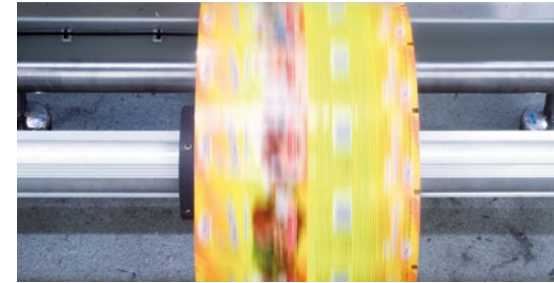
The B 1600 packaging machine is an extremely versatile model used for many different applications. This HFFS machine can manufacture a wide range of sachets: individual or twin, 3- and 4-side sealed sachets, stand-up pouches and delta-style bottom seal pouches. It can also produce pouches with total or partial shape, and include a reclosable zipper module.

The possibility to adapt different dosing systems enables this flexible packaging machine to fill all kinds of products such as liquids, viscous, granulated and powder products, wet wipes, etc. The B 1600 can manufacture a wide format range of flexible pouches of up to one liter capacity, and produce up to 180 pouches per minute.

B 1600 Operational Drawing



Details



Adjustable photocell to read the eye-mark in any position.



This model in duplex version, includes two independent vertical sealing groups.



Wide sachet opening, enabling higher filling grade.

Technical Features

Execution	Format Range (mm) WxH				Max. Volume (c.c.)	Filling Speed (Pouches per minute)	Machine Dimensions (L x W x H)
	Minimum	Gusset	Maximum	Gusset			
FLT-1	80 x 80	-	160 x 270	-	800	90	L 5600 mm
FLT-2	50 x 80	-	80 x 270	-	80	180	W 1580 mm
STU-1	80 x 80	25	160 x 270	48	1050	90	H 2220 mm

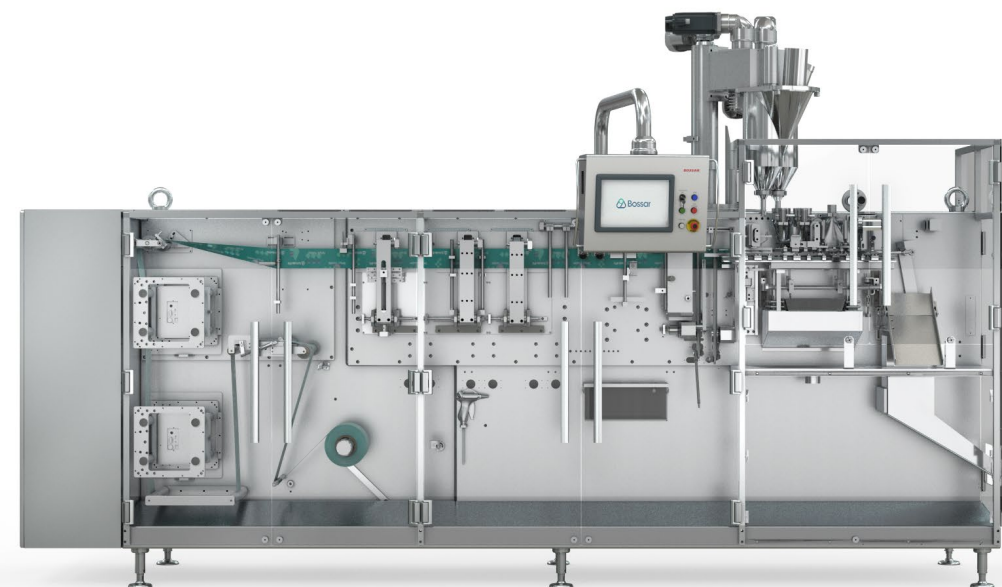
Indicative values. For different format sizes, please consult.

B 1600 Packaging Options



B 1400

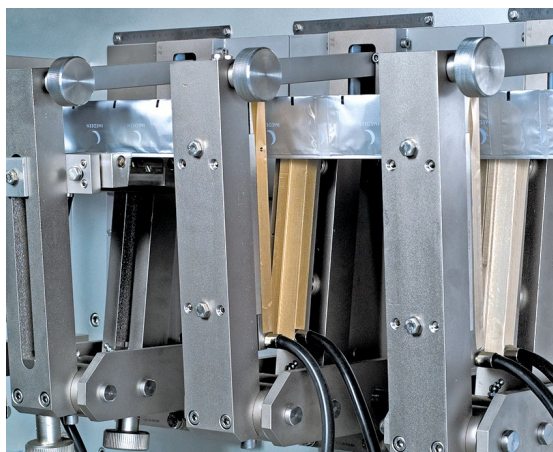
Versatility for small format solutions



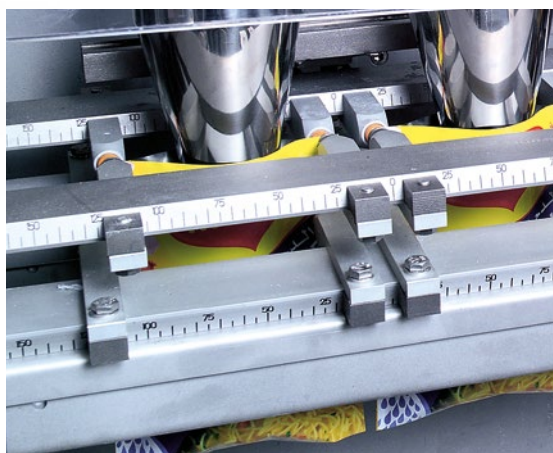
Liquid and solid products. Individual and/or twin sachets with 3- or 4-side seals.

This machines can manufacture sachets with small and medium doses to fill liquid and solid products or towelettes in flat sachets. The versatility of this model allows you to make individual or twin sachets with three or four side seals.

Details

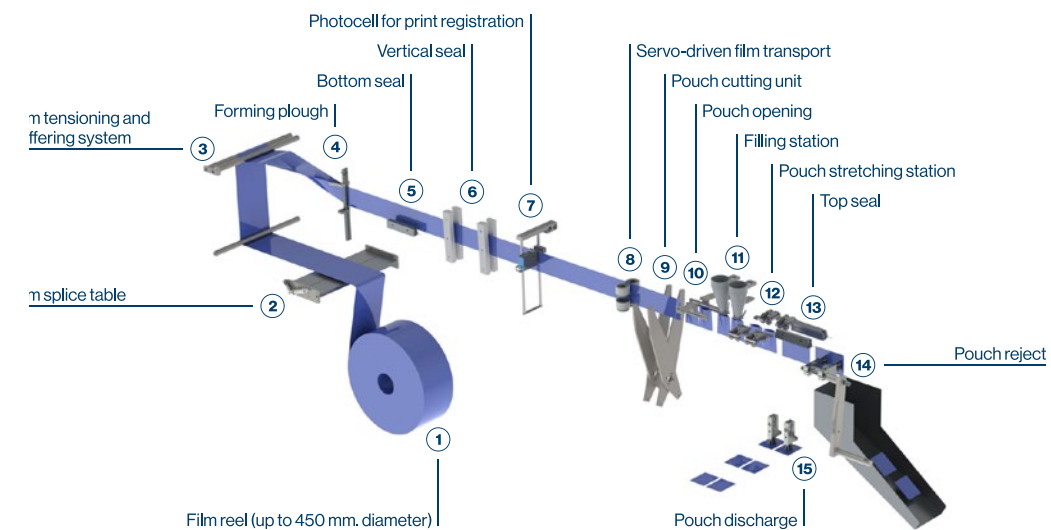


This model in duplex version includes two independent vertical sealing groups.



Wide sachet opening, enabling higher filling grade.

B 1400 Operational Drawing

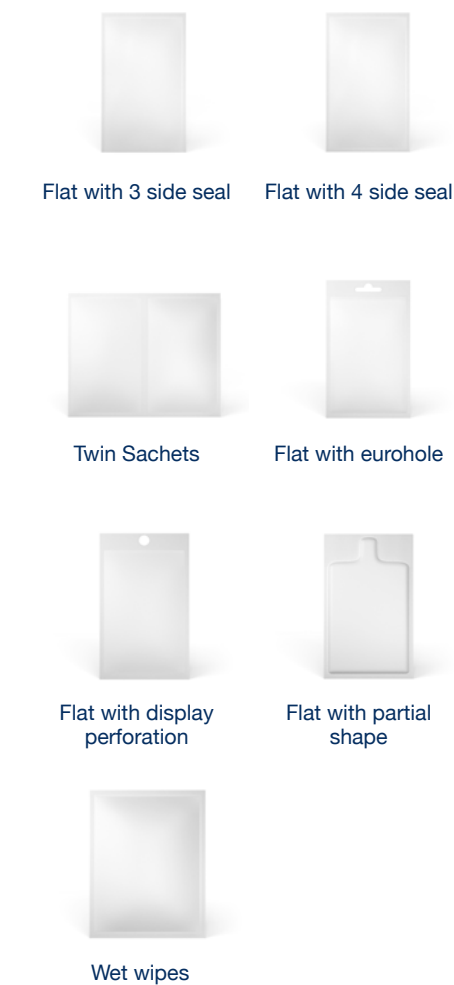


Technical Features

Execution	Format Range (mm) WxH		Max. Volume (c.c.)	Filling Speed (Pouches per minute)	Machine Dimensions (L x W x H)
	Minimum	Maximum			
FLT-1	50 x 60	140 x 210	320	110	L 4130 mm
FLT-2	45 x 60	70 x 210	50	220	W 1000 mm
					H 2220 mm

Indicative values. For different format sizes, please consult.

Packaging Options





The Hybrid Difference + Flexibility

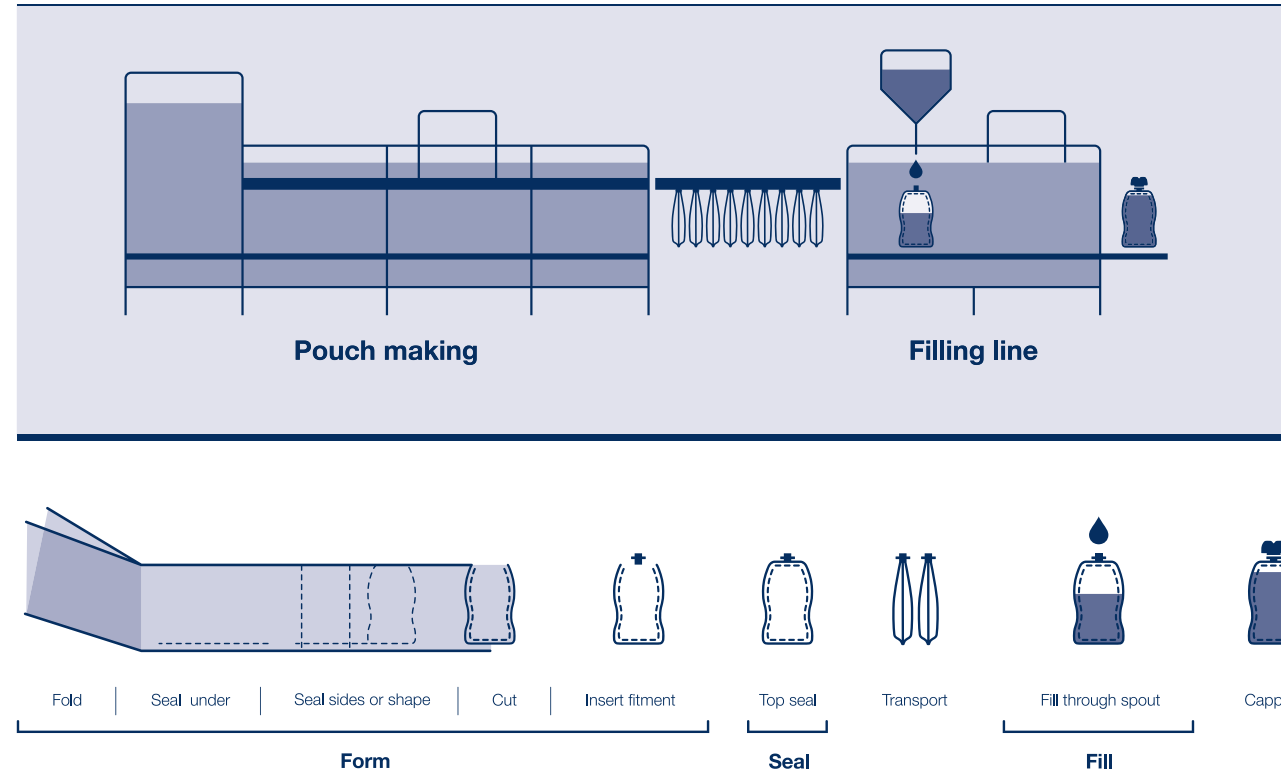
- Filling through the spout:
 - Continuous motion filling = longer filling time. No splash. Better products.
 - No head space required, the pouch is fully filled up to the top.
 - Advantage for hot-fill processes: no film shrinking during filling.

Hybrid +Flexibility

- Separating pouch forming and sealing steps from the filling steps.
- Filling through the spout.
- Pre-made quality pouches.

How It Works

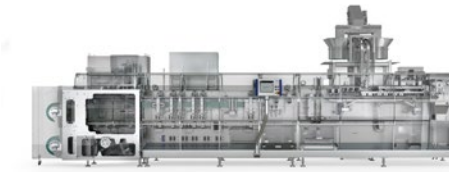
The Hybrid manufacturing model for flexible packaging separates forming and sealing from the filling step. This allows manufacturers to combine the efficiency of pouch and bag making on-site with the filling accuracy and versatility of a pre-made package.



Hybrid Series

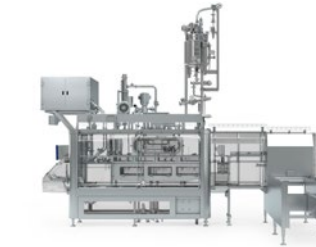
BPM Bossar Pouch Making Pre-made spouted pouches

Highest quality pouches produced with increased speed, and improved quality without compromising on efficiency.



BCF Bossar Clean Filler Filling through the spout

The BCF (Bossar Clean Filler) is engineered in a simplified design with a linear module to fill pre-made, spouted pouches for the food industry. The BCF is equipped with a stainless steel, low-maintenance and self-lubricated chain, which moves the pouches through the stations in a continuous motion.



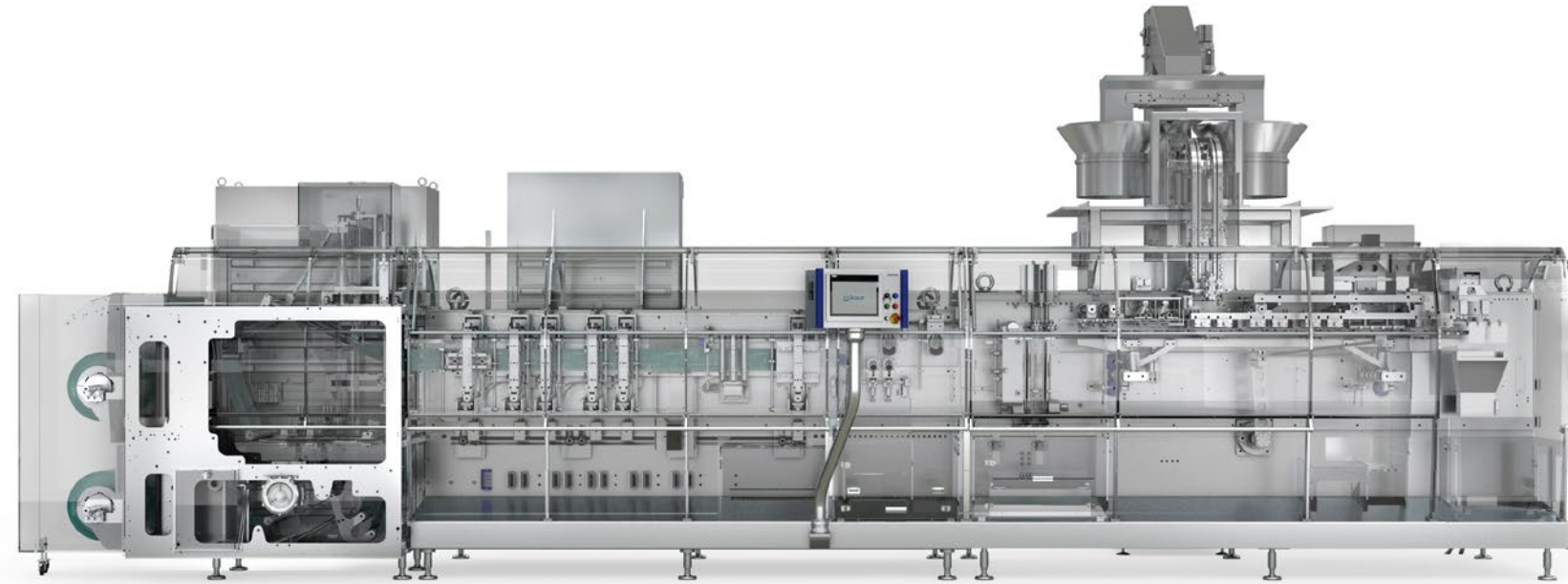
FSF Form-Seal-Fill Bag-in-box

FSF technology combines a high-performance, reliable machine with a range of film and fitment options to create a flexible sealing and filling system for bag-in-box packaging.



BPM Bossar Pouch Maker

Pre-made spouted pouches



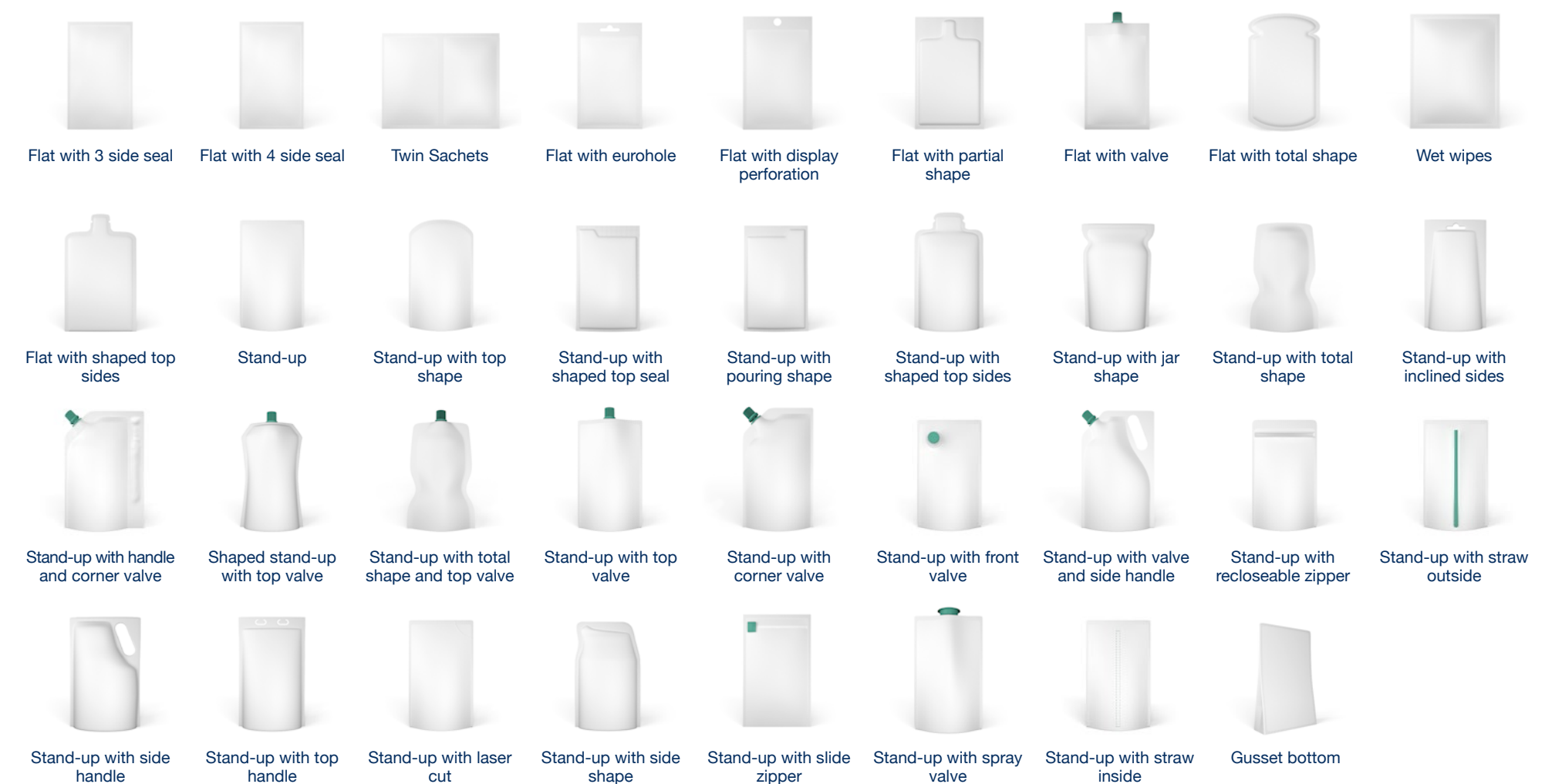
The ideal solution for producing pre-made spouted pouches.

Highest quality pouches produced with increased speed, and improved quality without compromising on efficiency. Enabling changeover flexibility with shaped pouches. By increasing the efficiency, and lowering the energy and film consumption, we offer a more attractive total cost of ownership.



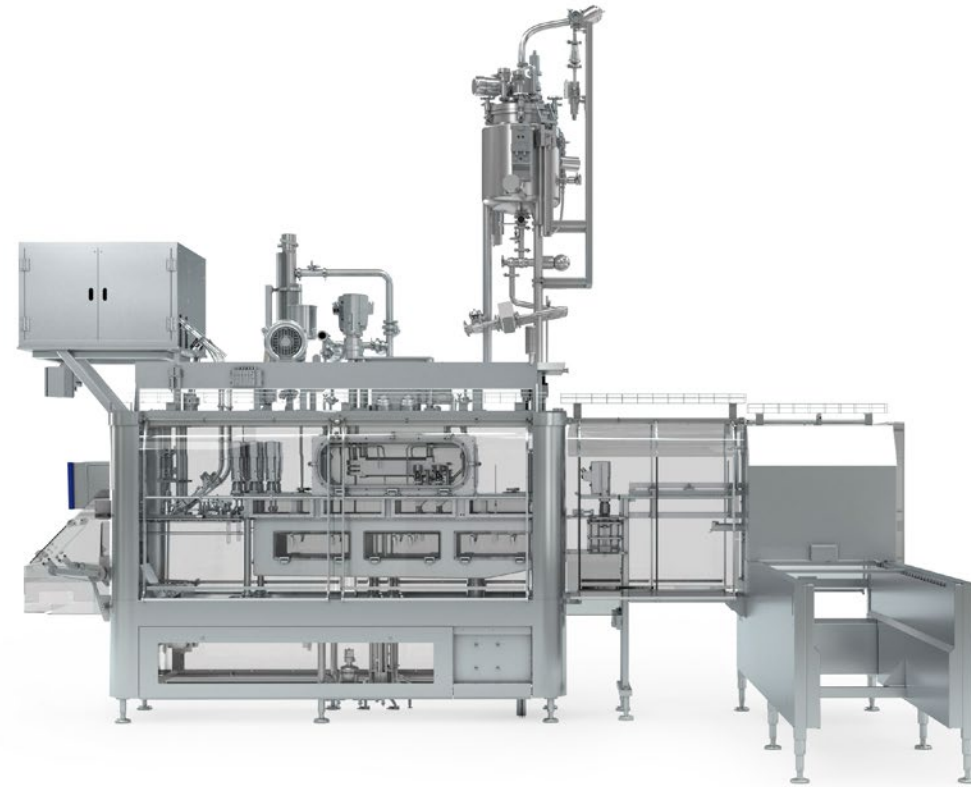
Pouches on rails.

BPM Packaging Options



BCF Bossar Clean Filler

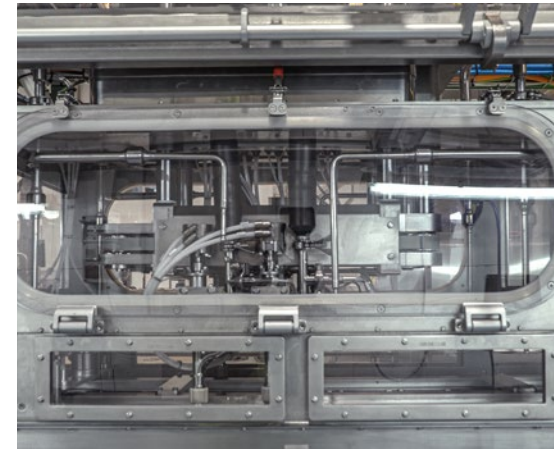
Filling through the spout



Compact and versatile machine for pre-made pouches.

The Bossar Clean Filler (BCF) is a unique concept designed for pre-made pouches, flat or stand-up, with centered spout. It features a simpler operation based on motion filling, whilst offering a small footprint and highest efficiency. Due to its hygienic design the BCF is particularly devoted to food products such as dairy, beverages, sauces, dressings, fruits mix and compotes.

Details

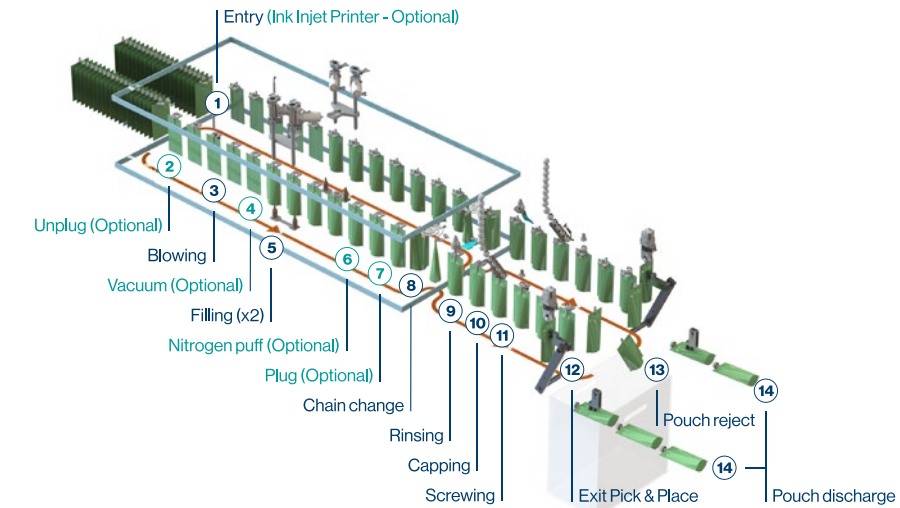


The BCF can be equipped for conventional spouts with regular 8.5 mm diameter. Option for 10 mm.



Filling nozzles.

BCF Operational Drawing



Technical Features

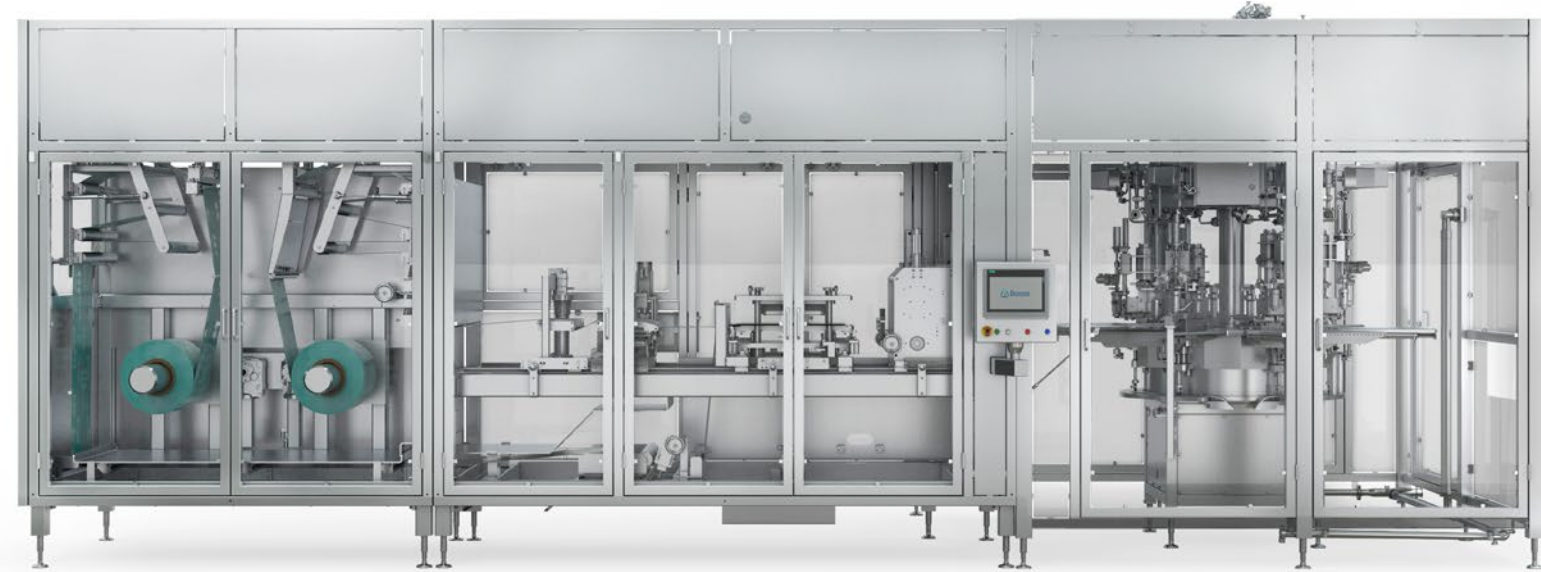
	Pouch Volume (ml)	Machine Output (ppm)	Filling	Machine Dimensions (mm)
BCF	50-500	240	Premade pouches with top spout	L 4000 x W 8900 x H 4500

Indicative values. For different format sizes, please consult.

Benefits

- Filling through the spout for liquid products.
- Advantages of filling through the spout:
 1. Higher filling level in the pouch, resulting in reduced head space and reduced film waste.
 2. Less chance of splashing with low-viscosity liquids.
 3. Possibility of effective nitrogen flushing.
- Small footprint and high efficiency.
- Food contact area: hygienic area designed for food products applications.
- Continuous motion filling enables a longer filling time. The linear and continuous motion of the filling nozzles enables the filling time to reach up to 1.5 seconds. 3x longer compared to other machines. Improving filling accuracy and reducing splashing of the product.
- Ability to work four different caps at the same time.

FSF Form-Seal-Fill Bag-in-box



The ideal solution for bag-in-box.

The FSF bag-in-box machine brings cost savings whilst increasing efficiency and enabling production flexibility. FSF technology combines a high-performance, flexible and reliable machine with a range of films with excellent mechanical and physical performances and a very high barrier tap to manufacture and fill more competitive bags with outstanding oxygen barrier performances.

FSF Benefits

- Completely automatic equipment reduces labor, maintenance and repair costs.
- Two versions (single or double lines) suits different production volume requirements.
- Positive-air enclosure equipment keeps contaminants out of both bag making and filling operations.
- Specially designed box loading system protects the bags at this critical packaging stage.
- Gentle filling process, hence less dissolved oxygen in bag and thus longer shelf-life.
- Line consists of bag-maker, taps inserter, rotary filler, box loading, handle applying machine.

Technical Features

Filling Speed		Machine Dimensions (mm)
Up to 10 L Bags	4 heads 22 bags per minute	L 7850 x W 3500 x H 3500
	6 heads 30 bags per minute	

Indicative values. For different format sizes, please consult.

Packaging Options



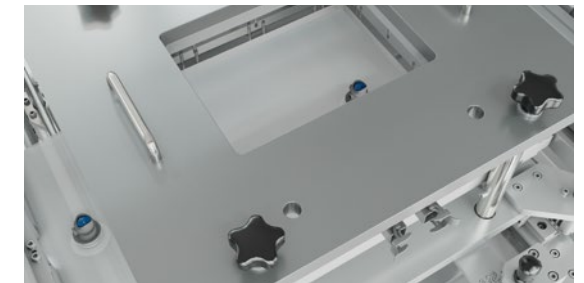
Bag (Bag-In-Box)

Box (Bag-In-Box)

Details



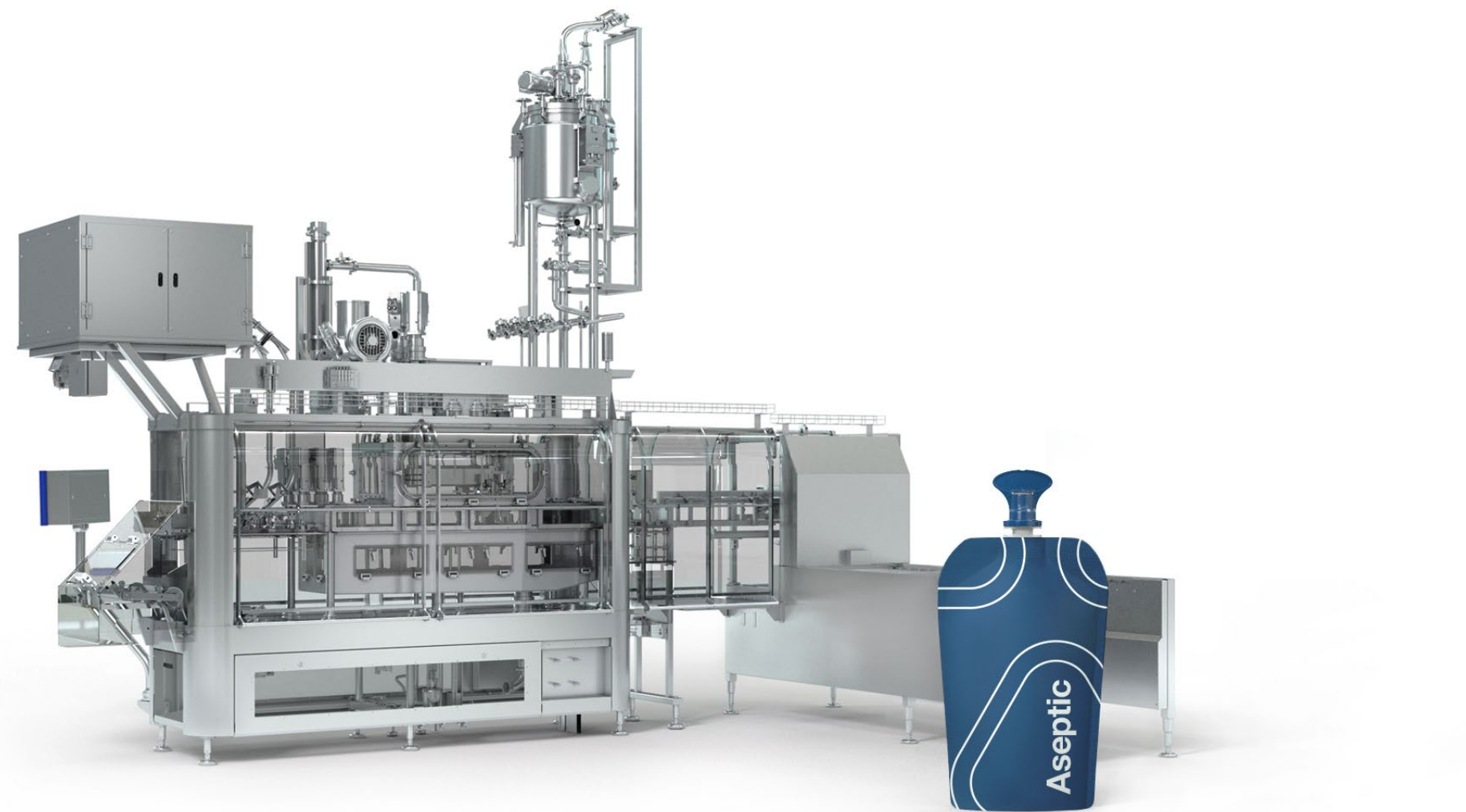
Utilize industry-leading bag-in-box film technology from Scholle IPN.



On-demand bag making eliminates the need for stocking one or more SKUs of pre-made bags.



Rotary filling increases fill speeds up to four times over traditional linear filling.



The Pre-Made Difference + Simplicity

- We specialize in pouch and bag-in-box design and technology with a focus on the development of unique and innovative performance solutions that optimize the relationship between packaging and the products they contain.
- Spouted pouches and fitments are manufactured in clean environments.
- We choose to use automated equipment and processes to ensure our products are delivered to the filler intact and safe for use.

Pre-Made +Simplicity

Pouches-on-rail systems provide brands with a low-barrier entry to the spouted pouch market compared to form-fill-seal operations.

Series

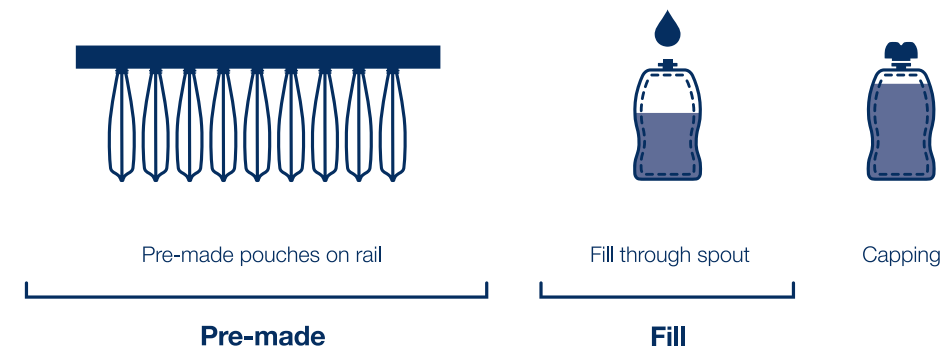
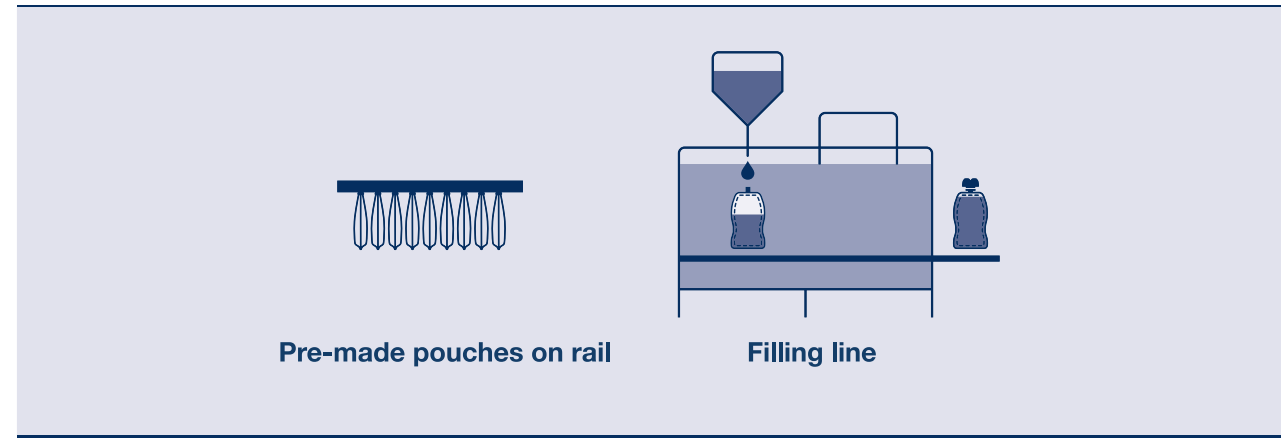
BCF Bossar Clean Filler Filling through the spout

The BCF (Bossar Clean Filler) is engineered in a simplified design with a linear module to fill pre-made pouches with spouts for the food industry. The BCF is equipped with a stainless steel, low maintenance and self-lubricated chain, which moves the pouches through the station in a continuous motion.

More information about the BCF, see page 48.

How It Works

We supply the pouches on rails, this enables you to easily fill your product on our machines. Continuous motion filling through the spout enables for longer filling time. In fact, the filling time can reach up to 1,5 seconds. Three times longer compared to other machines. Improving filling accuracy and reducing splashing of the product, thus improving its texture.



Pre-Made Option



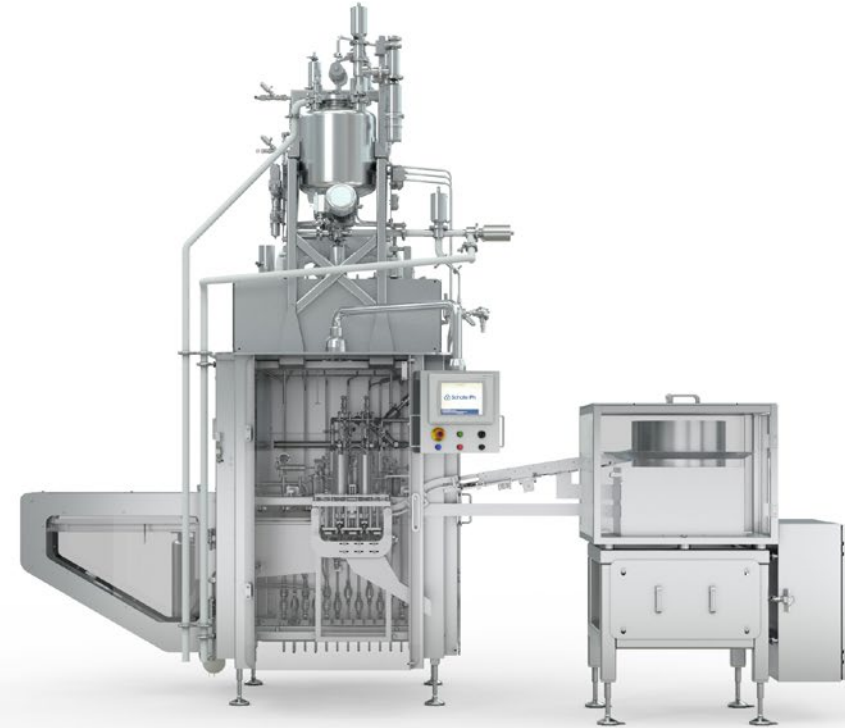
Aseptic Execution Shelf-stable solution

Aseptic processing and packaging is the filling of commercially-sterilized products into pre-sterilized containers. Commercially-sterile, cooled product is processed separately from the packaging. Incoming packaging is sterilized independently from the product. Packaging is filled and hermetically-sealed with a pre-sterilized closure in an atmosphere free of microorganisms.



SureFill® 52P – Aseptic

Pre-made CleanPouch® spouted pouches



Lab-Scale Solution for Product Development

This machine is a pilot-scale, semi-automatic spouted pouch filler, used by customers to test and commercialize new products. It is suited for pilot facilities, R&D labs, and start-up and trial production as it was designed with a very compact footprint, utilizing the latest aseptic filling technologies. Once packaged, aseptically-processed goods can be distributed through ambient supply chains, without reliance on cold-chain logistics.

Details



Integrated aseptic zone ensures the spout and plug are kept sterile throughout the filling process.

SureFill® 52P – Aseptic Benefits

- Capable of packaging low-acid aseptic, high-acid aseptic, and ultra-clean (ESL) products in 60- to 500-milliliter.
- Aseptic products eliminate need for preservatives, “cooked” flavors, and reliance on cold-chain logistics.
- Clean-in-place (CIP) and sterilize-in-place (SIP) machine cycles are applicable. CIP cycle controlled by filler programming, works in line with your existing CIP system to complete the CIP circuit.

Packaging Options



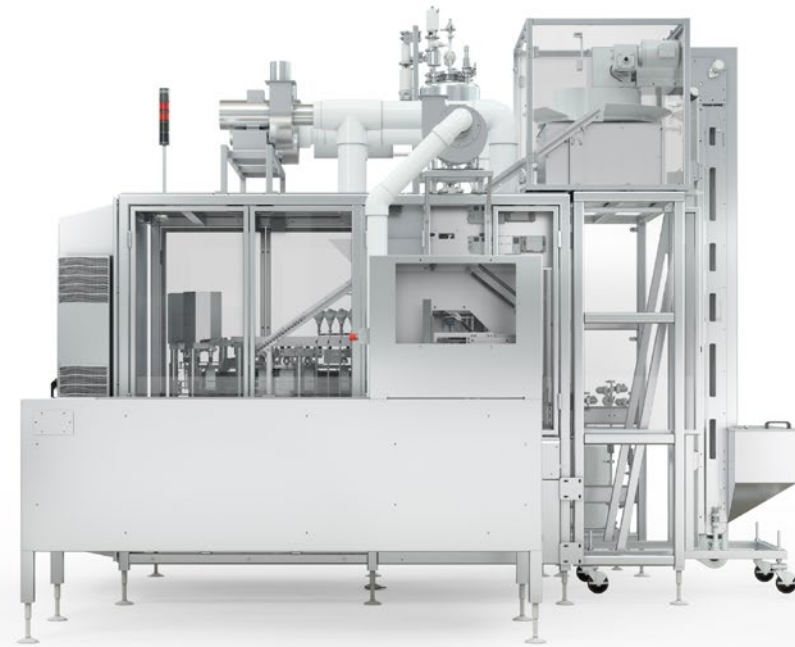
CleanPouch® Spouted Pouch

Technical Features.

Package Size (mL)	Filling Speed (Pouches per Minute)	Machine Dimensions (mm)
118	25	L 3215 x W 2775 x H 3641
237	20	
355	16	
473	14	

SureFill® 100P – Aseptic

Pre-made CleanPouch® spouted pouches



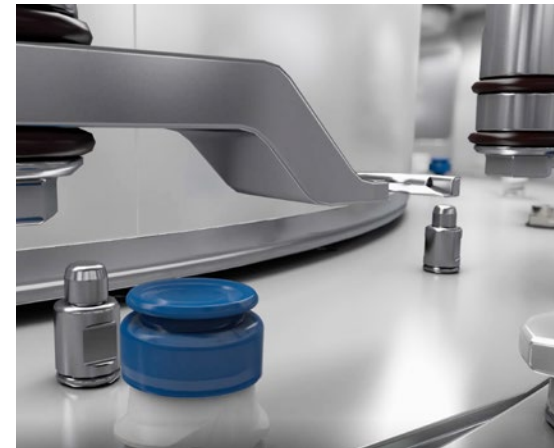
High-Quality Aseptic Production

This compact machine features an aseptic-capable rotary filler and is designed for high OEE production of pre-made spouted pouches. Once packaged, aseptically-processed goods can be distributed through ambient supply chains, without reliance on cold-chain logistics.

Details



Integrated Vapor Sterilant Technology (VST™) ensures the spout and plug are kept sterile as the pouches enter the filling area.



The sterile filling chamber is where pouches are unplugged, filled, and re-plugged, all within a clean environment.

SureFill® 100P – Aseptic Benefits

- Capable of packaging low-acid aseptic, high-acid aseptic, and ultra-clean (ESL) products in 60- to 500-milliliter sizes.
- Aseptic products eliminate need for preservatives, “cooked” flavors, and reliance on cold-chain logistics.
- Features an automated rail-fed infeed for the pre-made spouted pouches that a single person can operate.
- High-speed, four-head filling operation.
- Monitor interfaced to a programmable controller assuring low-acid aseptic conditions during sterilization and filling operations.
- Clean-in-place (CIP) and sterilize-in-place (SIP) machine cycles are applicable. CIP cycle controlled by filler programming, works in line with your existing CIP system to complete the CIP circuit.

Packaging Options



CleanPouch® Spouted Pouch

Technical Features.

Package Size (mL)	Filling Speed (Pouches per Minute)	Machine Dimensions (mm)
118	100	L 6864 x W 4038 x H 3849
177	75	
237	69	

SureFill® 12

Pre-made bag-in-box



High-OEE With Maximum Versatilit

This single-lane, automatic web filling machine is optimized to fill bag-in-box packaging at a high rate of speed. Option modules for nitrogen purge, modified atmosphere, and HEPA-filtering are available for more sensitive products.

Details



Automated bag in-feed pulls webbed bags in at high speed to increase efficiency.



Airless fill pad reduces product splashing and foaming for superior protection from entrained oxygen.

SureFill® 12 Benefits

- Equipped with a monitor interfaced to a programmable controller assuring process conditions.
- All product contact surfaces are constructed out of 316L stainless steel and food grade construction.
- Includes visual warning indicators, a messaging system that displays fault condition(s) and, if necessary, stops the filling operation.
- If necessary, product may be automatically diverted away from the filler with messaging to upstream processing control.
- This filler is of modular design and can be configured to address a variety of packaging and bag loading options; from flat-drop to end-load configurations.

Technical Features

Package Size (L)	Filling Speed		Machine Dimensions (mm)
	(Liters per Minute)	(Bags per Minute)	
2.0	227	14-15	L 2615 x W 1603 x H 2534
3.0	227	14-15	
4.0	227	13-14	
5.0	227	10-12	
10.0	227	9-11	
20.0	227	7-8	

Packaging Options



Retail Fitments

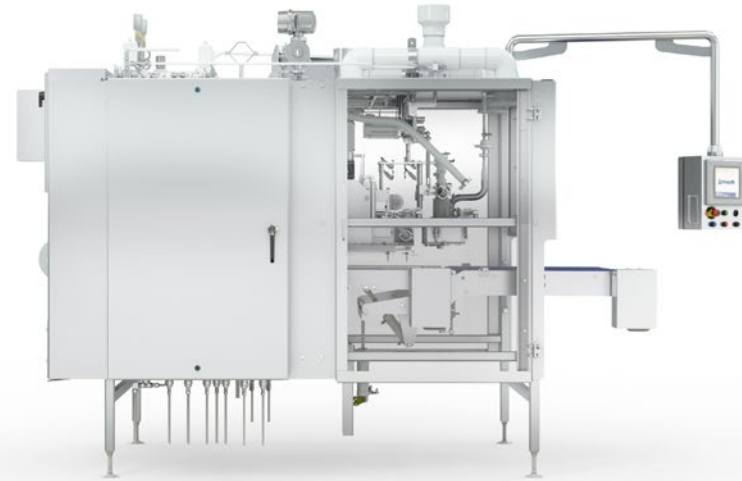


Institutional Fitments



SureFill® 42 - Aseptic

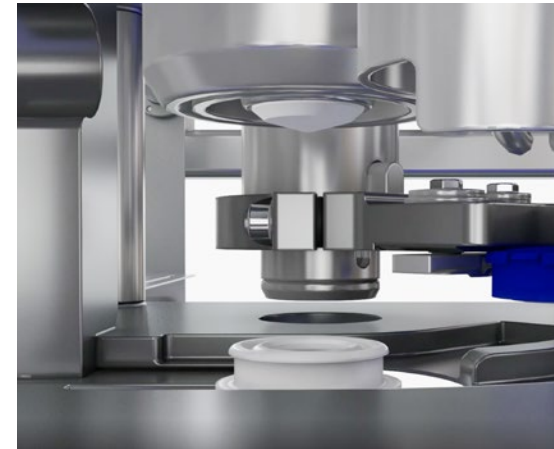
Pre-made bag-in-box



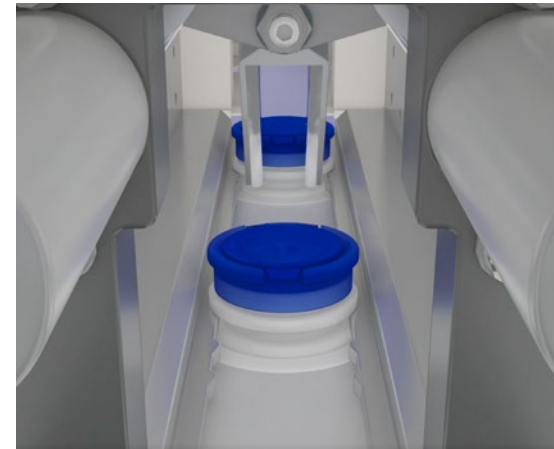
Filling Technology That Delivers Quality and Versatility.

This machine features advanced bag-in-box aseptic technologies that allow for filling of single-fitment bags both with—and without—a hose. Once packaged, aseptically-processed goods can be distributed through ambient supply chains, without reliance on cold-chain logistics.

Details



Fill head unit is capable of maintaining sterility throughout uncapping, filling, and recapping.



The sterilization tunnel connects to the Vapor Sterilization Tunnel (VST™) unit to deliver vaporized hydrogen peroxide which sterilizes the outside of every spout and fitment before they enter the filling head area.

SureFill® 42 - Aseptic Benefits

- Capable of packaging Low-Acid Aseptic, High-Acid Aseptic, Ultra-Clean (ESL), and Ambient products in 3- to 24-liter sizes.
- Airless fill pad reduces product splashing and foaming for superior protection from entrained oxygen.
- Equipped with a monitor interface to a programmable controller assuring process conditions.
- Clean-in-place (CIP) and sterilize-in-place (SIP) machine cycles are applicable. CIP cycle controlled by filler programming, works in line with your existing CIP system to complete the CIP circuit.
- Modular design that can be configured to address a variety of bag loading options: from flat drop to end-loading configurations.
- Aseptic products eliminate need for preservatives, “cooked” flavors, and reliance on cold-chain logistics.

Technical Features

Package Size (L)	Filling Speed		Machine Dimensions (mm)
	(Liters per Minute)	(Bags per Minute)	
3.0	227	13-15	L 2827 x W 1585 x H 2586
4.0	227	12-14	
5.0	227	11-13	
10.0	227	9-10	
20.0	227	6-7	

Packaging Options



Retail Fitments



Flex Tap®

Institutional Fitments



800 Cap

1400 Cap

1500 Cap

2600 Cap



8100 Cap

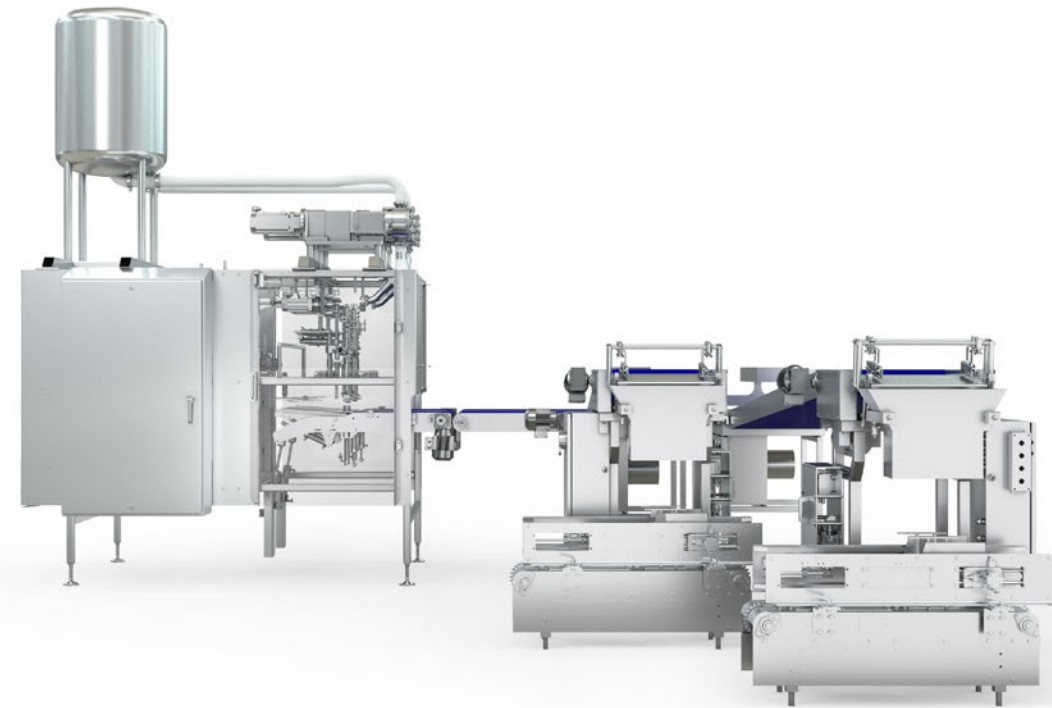
Sentry SafeLock® Cap

QuickSeal Sentry SafeLock® Cap

PureFlow Ball Valve

SureFill® 44 - Fresh

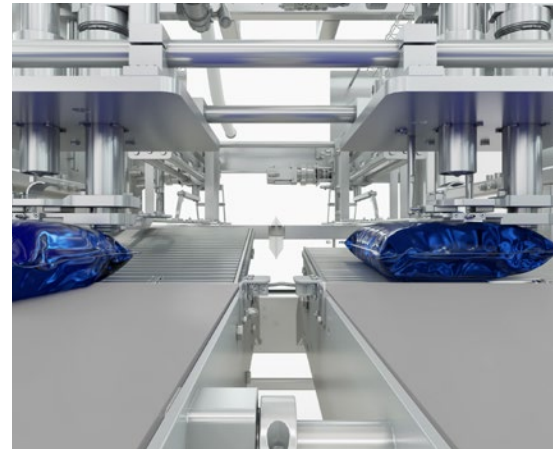
Pre-made bag-in-box



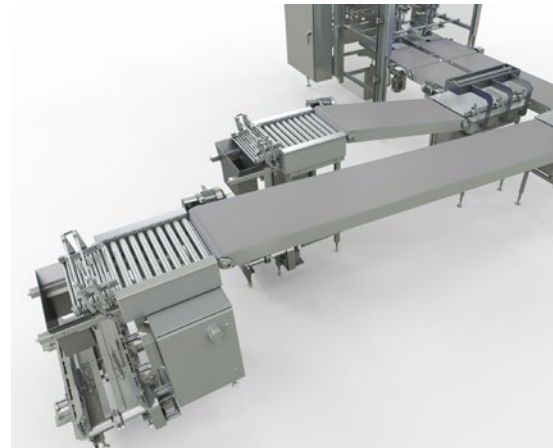
High-Speed, Dual-Lane System

This machine features advanced technologies that allow for dual-lane filling and packing. The twin fill heads, which run separate bag webs, quickly and accurately deliver liquid to the packaging in bulk-sized bag-in-box formats.

Details



Dual filling heads increase throughput of machine and lower overall production costs.



Downstream box loading conveyors and loaders place bags into boxes with minimal damage, ensuring quality.

SureFill® 44 - Fresh Benefits

- Capable of packaging Clean Fill (ambient) products in 10- to 20-liter sizes.
- Airless fill pad reduces product splashing and foaming for superior protection from entrained oxygen.
- Equipped with a monitor interface to a programmable controller assuring process conditions.
- Clean-in-place (CIP) and sterilize-in-place (SIP) machine cycles are applicable. CIP cycle controlled by filler programming, works in line with your existing CIP system to complete the CIP circuit.

Technical Features

Package Size (L)	Filling Speed		Machine Dimensions (mm)
	(Liters per Minute)	(Bags per Minute)	
10.0	227	26	L 3180 x W 3715 x H 4530
20.0	227	20	

Packaging Options



Retail Fitments



1100 Tap

Flex Tap®

Institutional Fitments



800 Cap

1400 Cap

1500 Cap

2600 Cap

8100 Cap

MaxiFlow Tap



Film

Extrusion and Lamination

We have extensive experience developing unique film blends which provide the ultimate protection and package performance for a diverse range of flowable products.

From time-sensitive, fresh foods and beverages, to aggressive chemicals and sensitive pH products, our flexible packaging solutions are designed to protect your product and keep it safe from fill through final dispensing. We offer:

- Recyclable film solutions that enable you on your journey towards a more circular economy.
- Barrier protection designed to keep your product safe and extend secondary shelf life.
- Solutions that fits seamlessly where you need them, whether in retail, institutional, or industrial applications.





Barefoot bag-in-box features: DuraShield® film with FlexTap® fitment, and is filled on SureFill® 12 equipment.

Fitments

Injection Molding and Assembly

Scholle IPN injection molds and assembles fitments designed to provide an ergonomic interaction with your product for all ages and abilities.

- Our fitments are designed with focus on optimized functionality and fit for sealing to film.
- Our taps, connectors, and caps are designed to suit your needs – whether that’s on a retail shelf, a fast-paced restaurant operation, or industrial use.

Our vertical integration and global footprint ensures competitive pricing and supply contingencies. Our Industry 4.0 approach to manufacturing uses data, automation, and robotization. Together with clean room manufacturing and in-line vision systems, we maintain high quality from design to production.

Caps and Taps:
Ergonomic, easy-to-use solutions designed for people of all ages and abilities.

Connection Systems:
Facilitate safe, precise dosing and mixing of liquid products from dispensers.

Environmentally-Conscious:
Designs engineered to be lightweight and with the Earth’s limited resources in mind.



Materials Science and Development

We strive to be the best total flexible packaging solutions supplier, from development to production to service. We apply a scientific approach to all our R&D processes to offer innovative packaging solutions that fit your unique requirements.

Our extensive experience developing unique film blends and fitment designs provides protection and performance for a diverse range of products from dairy to battery acid. And, with globally-placed production capabilities and localized expertise, we can ensure your packaging solution is made with leading technology and quality.

The key to this expertise lies in our Materials Science Laboratory and partnerships with leading universities and innovation firms.



Differential scanning calorimetry analysis for polymers.



Purdue University

For decades, we have partnered with Purdue University, known for their expertise in aseptic food and beverage production and packaging technology. Together, we educate food technologists from around the world and help innovative brands explore the value of aseptic.

Our fully-equipped materials science lab is staffed by expert scientists and technicians with chemistry and engineering backgrounds who develop testing methods, supporting all of our locations across the globe. The team helps verify and ensure that our products meet goals and regulations and protect customers' products from filling through final dispensing.

All work done in the lab can be broken down into four types of projects:



Research and Development

Our labs work closely with product development engineers to confirm production and functional specifications for new fitment and film innovations through extensive testing protocols.



Commercial Support

Ensuring product and package compatibility is critical to success. The labs perform sensory, shelf-life, and ship testing for all new innovations or any application change our customers explore.



Manufacturing Support

We are constantly working to find a simpler way to make products. The lab determines if new film and fitment upgrades meet specifications and confirms quality at every step of the production process.

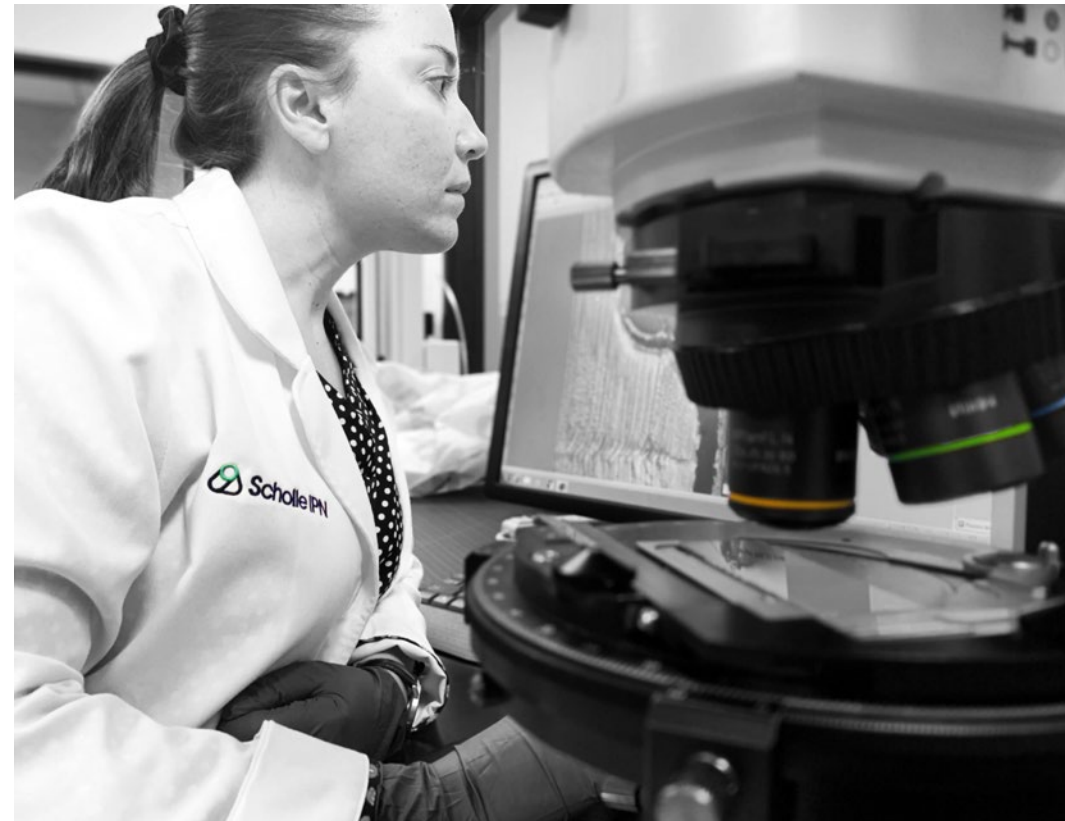


Quality Support

Our labs use a number of mechanical, chemical, and application tests to determine the root cause of any quality issues and to guide R&D teams toward designing the best flexible packaging possible.

Materials Science Lab Capabilities

Our labs use a wide range of state-of-the-art testing equipment and analysis processes which cover polymers and applications testing.



Analytical Testing

Material Identification

Allows us to determine source materials.

- Differential Scanning Calorimetry
- Polymer Degradation Analysis
- ATR-FTIR and FTIR Microscopy
- Gas Chromatography

Additive Analysis and Extractions

Tests different film combinations.

- Slip
- Antioxidant
- Anitblock

Barrier Testing

Measurements of barrier properties of film.

- Oxygen Transmission Rate (OTR)
- Moisture Vapor Transmission Rate (MVTR)
- Optical Density

Microscope Analysis

Allows for analysis of film and fitment defects.

- Film cross-section (Microtome)

Applications Testing

Bag Tests

Simulation of events bags could experience in real-life situations.

- Drop Test
- Shelf Life
- Seal Strength
- Burst and Maintain

Shaker Table

Simulation of extreme road and rail conditions.

- Checks for main failure analysis
- Bag durability
- Corrugate containers and drums

Dispensing

Testing aimed to minimize product waste.

- Product evacuation rates
- Analysis for ideal dispensing conditions and specifications

Mechanical Testing - Film

Strength

Measures how much force is required to break or deform the bag.

- Tensile
- Elongation
- Tear
- Puncture

Physical Properties

Measures general properties of the film for adherence to Scholle IPN standards.

- Modulus
- Peel Force
- Gauge

Gelbo Flex Testing

Measures how much the film can be flexed before degradation.

- Flex Durability

Coefficient of Friction (COF)

Measures COF for efficiency in filling.

- Slip content in film
- Statistics and dynamics of film movement on surfaces.

Mechanical Testing - Fitments

Instron (Force Testing)

Measures the force needed to seat—and unseat—the spout from the cap.

- Compression
- Removal
- Peel
- Actuation

Functionality

Tests for leaks between the spout and cap to ensure hermeticity.

- Pressure methods:
 - PSI (submerged)
 - ATEQ

Torque

Measures force needed to twist fitments into place.

- Manual test

Leak Testing

Tests for end-use functionality.

- Drip- and Flow-Rate
- Spring Rebound Testing
- Environmental Stress Crack Resistance (ESCR)

Sealing Options

We have pioneered a revolutionary sealing technology which will empower our customers to choose for sustainable and recyclable packaging solutions. Regardless of this, we are glad to offer the more traditional sealing methods, such as ultrasonic and heat sealing.



Heat Seal. The Classic Way

- Based on electric resistance.
- Reliable and low cost.
- Simple engineering.
- Cooling step is needed.
- Multiple steps are needed to guarantee sealing quality, increasing the total machine footprint.



Ultrasonic Seal. Cold Sealing

- Using high-frequency vibrations, it seals the packaging due to molecular vibration within the film.
- Hermetic seals regardless of seal area contamination.
- Significant reduction in packaging material consumption due to:
 - Smaller sealing area.
 - Reduced head space in the pouch.
- High reproducibility process.
- Quicker sealing times.
- Mechanical cutting and sealing in the same step.



Induction Seal. Revolutionary Sealing Method

- Novel sealing system based on heat-generation by electro-magnetic field.
- Heat and Cooling in one single step:
 - Less stress to the film.
 - Sealing jaws remain closed until film is cold.
- Continuous motion sealing process.
- Adjustable to any film structure.
- Sealing time reduced by 1/3 of the time compared with heat sealing.
- Designed for circular economy packaging.

Filling Options

Each product requires a specific filling technology. Aseptic, ultra-clean, ambient and hot-fill; we have it all.



Hot Fill. High-Acid Products

Hot-fill processing fills heated, commercially sterile product in non-sterile packaging. The product is held for a predetermined time and temperature to sterilize the packaging prior to the filling process. The longer hold time at high temperatures reduces quality of the product. Only high-acid products can be hot-filled and held at ambient temperatures without refrigeration.



Clean Fill. Cold-Chain Solution

The Clean Fill (ambient) method uses cold to kill bacteria. The food also remains cool until it is time to fill the containers. Clean Fill is popular because it does not require the use of preservatives or other food additives to protect food. Clean Fill is used for packing food products that have dairy as a main ingredient.



Ultra-Clean. Cold-Chain Solution

Ultra-clean (ESL) levels are achieved in packaging by means of laminar flow, UV lamps and/or hydrogen peroxide. This is essentially to achieve high sterility levels for short shelf-life products. These applications are required to fill fruit juice, compote, yogurt and dairy products intended for cold-chain distribution.



Aseptic. Shelf-Stable Solution

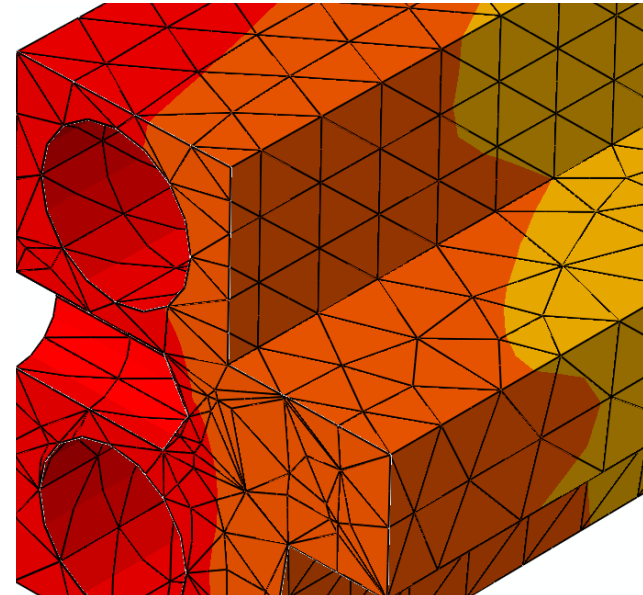
Aseptic processing and packaging is the filling of commercially-sterilized products into pre-sterilized containers. Commercially sterile, cooled product is processed separately from the packaging. Incoming packaging is sterilized independently from the product. Packaging is filled and hermetically sealed with a pre-sterilized closure in an atmosphere free of microorganisms.

Our R&D Approach

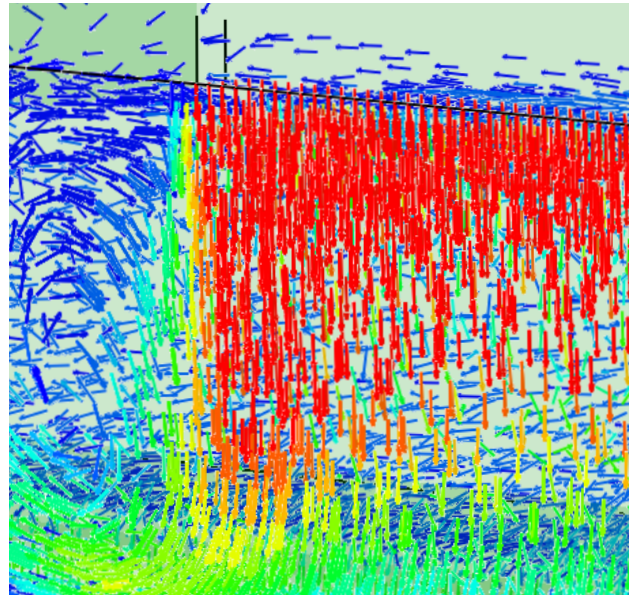
We strive to be the best total flexible packaging solutions supplier, from development to production to service. We apply a scientific approach to all of our R&D processes which helps us identify opportunities, in combination with our in-house capabilities, to offer innovative packaging solutions.

Through leading-edge computer modeling and analysis, we conduct simulations to anticipate outcomes, minimizing the chance of production delays and errors in our packaging equipment.

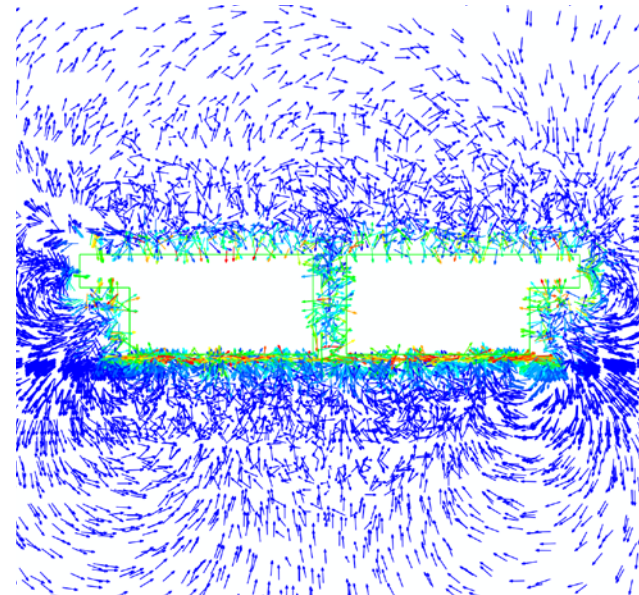
1. FEA – Analyzes material behavior under various conditions. This enables us to analyze and predict performance, potential deformations, and heat transfer fluctuations during sealing operations.
2. CFD – Advanced computational fluid dynamics analysis is used to study air flow and fluid movement within flexible packaging, highlighting potential areas for improvement or confirming performance results.
3. Electromagnetic Modeling - Computational electromagnetic field analysis helps us understand field behavior in order to improve design and manufacture of equipment parts.



1



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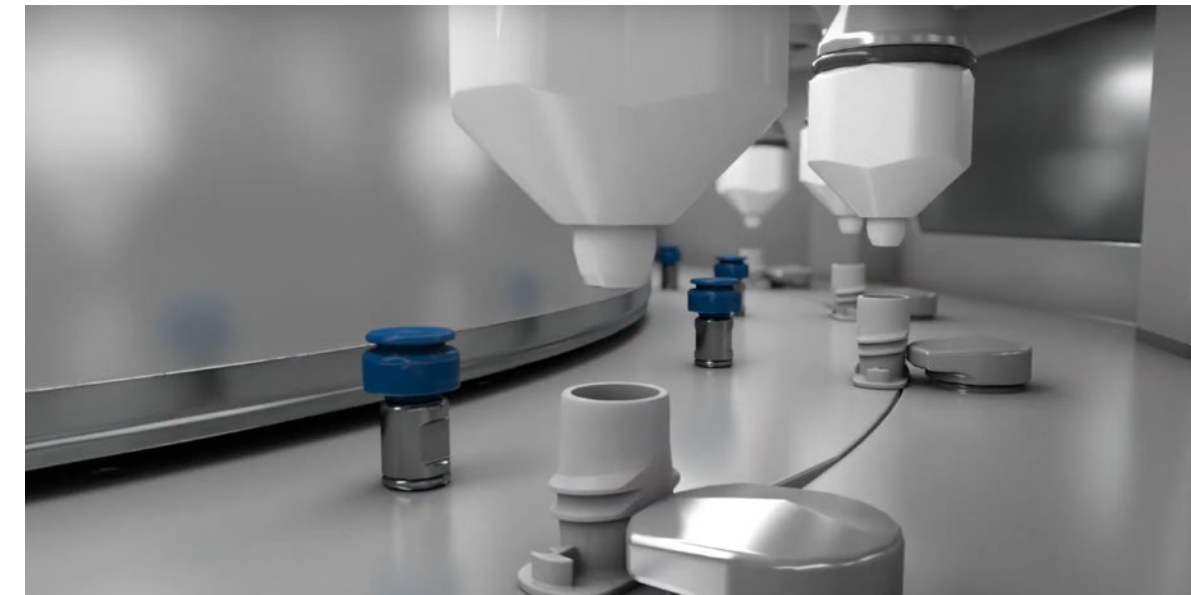
3

Sterility in the Machines

Product and packaging sterility are essential. We deliver quality products and services backed by extensive experience with decontamination of packaging equipment.

We install in-line sterilization equipment in our machines to maintain appropriate levels of sterility:

- Patented Vapor Sterilant Technology™ (VST) utilizes vaporized peroxide to sterilize aseptically-filled bags and pouches.
- In Ultra-Clean fillers, UV is used to disinfect the film and then vapor hydrogen peroxide sterilizes the fitment before filling.
- During the filling process, our equipment continues to keep your package clean and sterile.
- Our fitments are designed for hermetic seals, so after filling, the product will not be exposed until opened.



In-House Machine Workshop

This enables us to manufacture all the critical components in-house:

- Reducing lead times.
- Optimizing quality of the components.
- Increasing flexibility and improved logistics.
- Obtaining further know-how on the critical components involved in our machines.



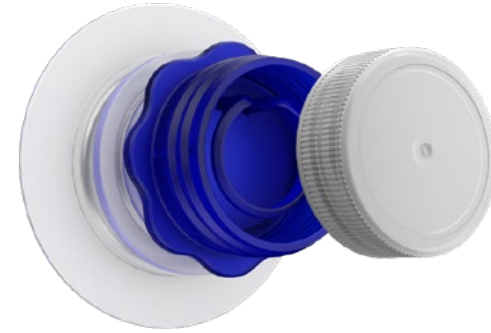
Aseptic Expertise



Our History

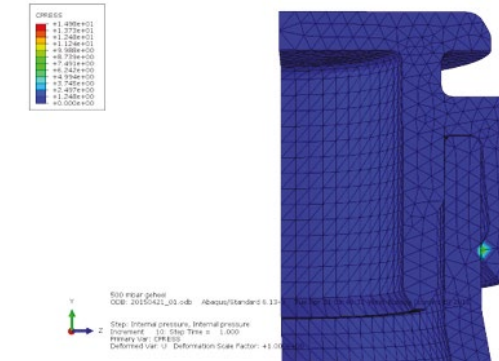
We pioneered aseptic packaging technology for both bag-in-box and spouted pouches, helping you offer the best-quality product while expanding the potential channels and locations available to you.

- Shelf-stable, no refrigeration or preservatives required
- Extended freshness and longer shelf life.
- Optimal flavor, texture, and nutrient retention.
- Eliminates costs, logistics, and energy used in cold chain.
- Opens up potential for food products in ecommerce.



Expand Your Potential with Aseptic Packaging Technology

Aseptic technology allows you to offer preservative-free, shelf-stable products that stay fresh up to 12 months on the shelf with no refrigeration needed. Aseptic opens your potential for ecommerce, while extended shelf life helps drive higher consumption and use in expanded locations.



Hermetic Seals: the Key to Aseptic-Capable Fitments

The first part of aseptic package technology is a hermetically sealed package. To ensure the package is hermetically sealed, we use a “bubble” pressure test to verify that nothing comes into or out of the package. We follow the FDA Bacteriological Analytical Manual, specifically chapter 22C. To ensure that our package is hermetically sealed and capable of commercial sterility, we perform a microbiological challenge test with *Geobacillus stearothermophilus* spores (GS1).

Customer Service Worldwide

Spare Parts and Accessories

Scholle IPN and Bossar are able to deliver original spare parts worldwide. Our personalized and professional service offers a delivery time of 24 hours for many parts because we always have the essential parts in stock and ready for shipment.

Spare Parts

We have a program of special offers to help our customers keep parts in stock at their premises and to have the necessary items available when regular maintenance activities are performed.

Accessories

All accessories are assembled and tested at Scholle IPN and Bossar plants before shipping for their installation at the customer. We also supply all necessary information for their assembly.

We always provide original parts and accessories, ensure the best quality of our products, and offer our customers a warranty period.

Retrofits & Upgrades

Retrofits

We offer the possibility to overhaul relocated machines and rebuild used machines that have been resold for new applications.

We can also offer different retrofit options that can be installed on your Scholle IPN and Bossar machines. Once we receive your request, we carefully analyze its viability and offer the right solution for every case.

Upgrades

We work with you to ensure your installed equipment runs its best and features the latest versions of components. For older machines, we offer upgrade parts and modules to improve efficiency and lower maintenance costs.

We stock the items, like control panels, that are required to replace your obsolete platforms in the shortest time to avoid machine downtime.

Keep in mind it is better to schedule an upgrade before an unplanned failure occurs. We're here to support you 24/7/365.

Technical Service

We keep a close and long-term commitment with our customers, and we offer them efficient and global technical assistance during machines installation and commissioning; also for troubleshooting, retrofit installation and machine upgrades for our machines.

We strive to keep the highest standard of support for our customers. Our highly skilled and qualified service engineers have proven experience in servicing Bossar machines worldwide, working together with the customer to meet their manufacturing goals. Additionally, the fact we have local service engineers in different countries allow our technical services to be closer to our customers.

Bossar can also offer immediate assistance diagnosing through remote ethernet access or analogical conventional ways (modem), which enable on-line parameters visualization and program modifications to optimize working cycles.



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Bossar - Barcelona Spain



Scholle IPN - Peachtree City, USA

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Locations

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Merced, CA+
Northlake, IL+
Peachtree City, GA
Peachtree City, GA
- Canada**
Baie-D'Urfé, QC
- Mexico**
Mexico City*

Latin America

- Brazil**
Vinhedo+
Vinhedo
- Chile**
Santiago

- Scholle IPN
- * sales office
- + equipment field service
- Bossar



EMEA

- The Netherlands**
Kampen
Tilburg (H)
Tilburg (J)+
- Spain**
Barcelona
- Germany**
Eisfeld
- Russia**
Moscow
Voronezh

Asia-Pacific

- Australia**
Edinburgh North, SA+
Edinburgh North, SA
- India**
Palghar
Pune
- Malaysia**
Kuala Lumpur*
- China**
Suzhou+
Suzhou

Simply **Flexible**™

scholleipn.com
bossar.com

Total Flexible Packaging Solutions



Film



Fitment



Equipment

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