



a coesia company

Volpak Solutions for Home Care





Why Volpak?

Volpak designs and manufactures a wide range of HFFS machines for home care with different formats and a wide variety of closures.

Expertise & know-how for the Home Care industry.



Refill pouches require an efficient design of the pouring channel that guarantees the fluidity of the product regardless of changes in product viscosity. On large pouches a handle for transport or to help pouring is a convenient add on.



We use Mass flow meters to prevent that changes in the density of Home Care products significantly affect the preset dose.



Sustainable ready: all Volpak solutions are ready to work with 100% recyclable & sustainable materials.



We are experts in the dosing of foaming soap products. We choose the most suitable filling and foam extraction system depending on the product and the required production speed.

Home Care

01. Consumer awareness to reduce plastic consumption has increased the use of resealable, refillable flexible packaging, which is gaining ground over traditional rigid plastic packaging.

02. E-commerce has diversified various formats to meet the global market's requirements, with more tailor-made packaging adapted to a new online purchasing model.

03. Chemical ingredients are reduced in product formulations favoring the use of more natural ingredients that are less harmful to both the environment and consumers.

04. Pods or tablets are increasingly being used in both laundry care and dishwashing detergents. This type of product allows the right amount of product to be used and is much easier and faster to dose.





Solutions

01. VOLPAK SI SERIES

Horizontal Form-Fill-Seal machine for medium to high-speed projects, featuring servo-driven technology and accommodating a wide range of options and applicators.

02. VOLPAK SP SERIES

Horizontal Form-Fill-Seal machines for medium-speed projects, mainly mechanical-driven, and accommodating various options and applicators.

03. VOLPAK SL SERIES

Horizontal Form-Fill-Seal machines for medium to low-speed projects, mechanical-driven, offering straightforward setup and easy maintenance.

04. VOLPAK SC+ SERIES

Horizontal Form-Fill-Seal machines platform featuring continuous filling technology, ideal for high-speed and high-production volumes projects.

VOLPAK SI SERIES:

Horizontal Form-Fill-Seal machine for medium to high-speed projects, featuring servo-driven technology and accommodating a wide range of options and applicators.





SI 440

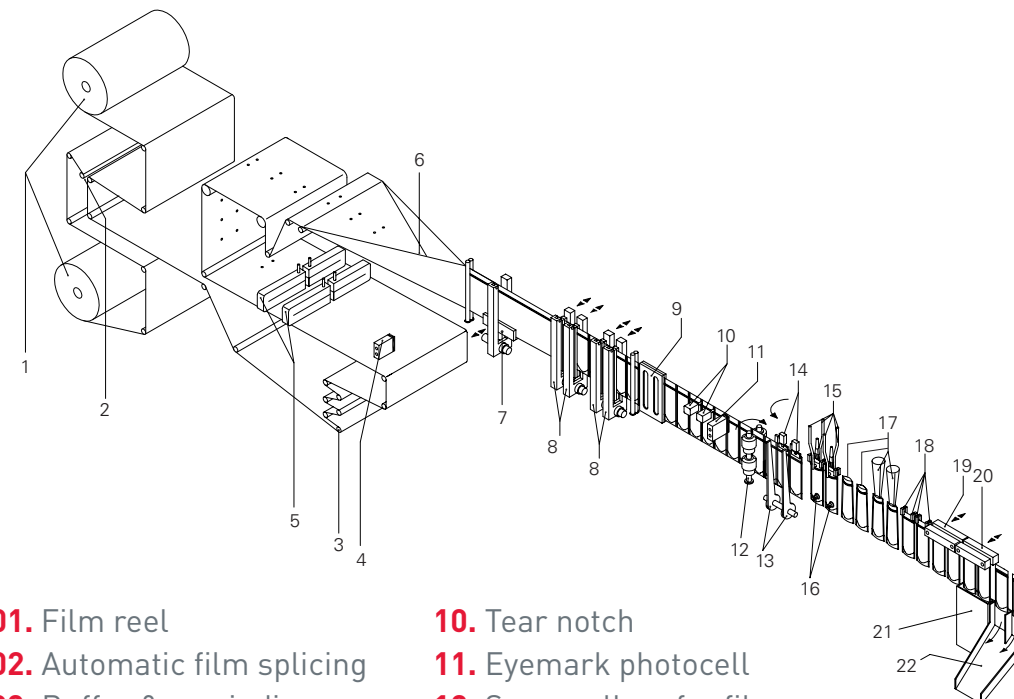
Horizontal Form-Fill-Seal (HFFS) machine for stand-up pouches, operating from a single reel of flexible packaging material, forming the pouch, filling it with product, and sealing.

Machine Highlights

- Duplex, Triplex or Quadruplex operation
- Smart HMI, easy and intuitive
- Mirror execution for footprint optimization
- Three dosing stations for multi-product filling
- Easy size change with guided operations and servo assisted regulations
- Low operating and maintenance costs
- Wide variety of pouch styles available (regular, shaped, top cap, corner cap, front cap, zipper, 3- or 4-side sealed sachets,...)
- Ready to work with 100% recyclable materials



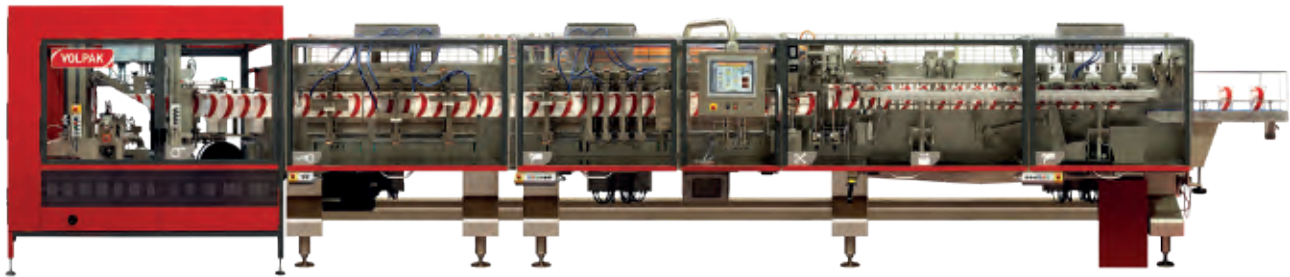
Operating Cycle



- | | | |
|------------------------------------|---|---------------------------------|
| 01. Film reel | 10. Tear notch | |
| 02. Automatic film splicing | 11. Eyemark photocell | |
| 03. Buffer & unwinding | 12. Servo rollers for film transport | 17. Filling stations |
| 04. Photocell | 13. Cutting knife | 18. Pouch top stretching |
| 05. Gusset perforator | 14. Pouch positioning & transfer | 19. Top sealing |
| 06. Forming triangle | 15. Pouch opening | 20. Top cooling station |
| 07. Bottom seal | 16. Bottom pouch opening | 21. Pouch reject station |
| 08. Vertical seal | | 22. Discharge ramp |
| 09. Cooling | | |

Technical Specifications

		Duplex	Triplex	Quadruplex
Min pouch size, W x H	mm	120 x 110 x 30	85 x 110 x 30	85 x 110 x 30
Max pouch size, W x H	mm	220 x 310 x 125	145 x 310 x 85	110 x 310 x 60
Max pouch volume	c.c	2000	600	300
Max output	ppm	120	180	240
Type of material		Heatsealable		
Max reel width	mm	745		
Max reel diameter	mm	600		
Core reel diameter	mm	74 - 78 / 150 - 154		
Electrical data		200 - 480 V / 50, 60 Hz / 3Ph+G		
Machine dimensions, L x A x H	mm	12300 x 2180 x 2260		
Net weight	kg	10000		



SI 360

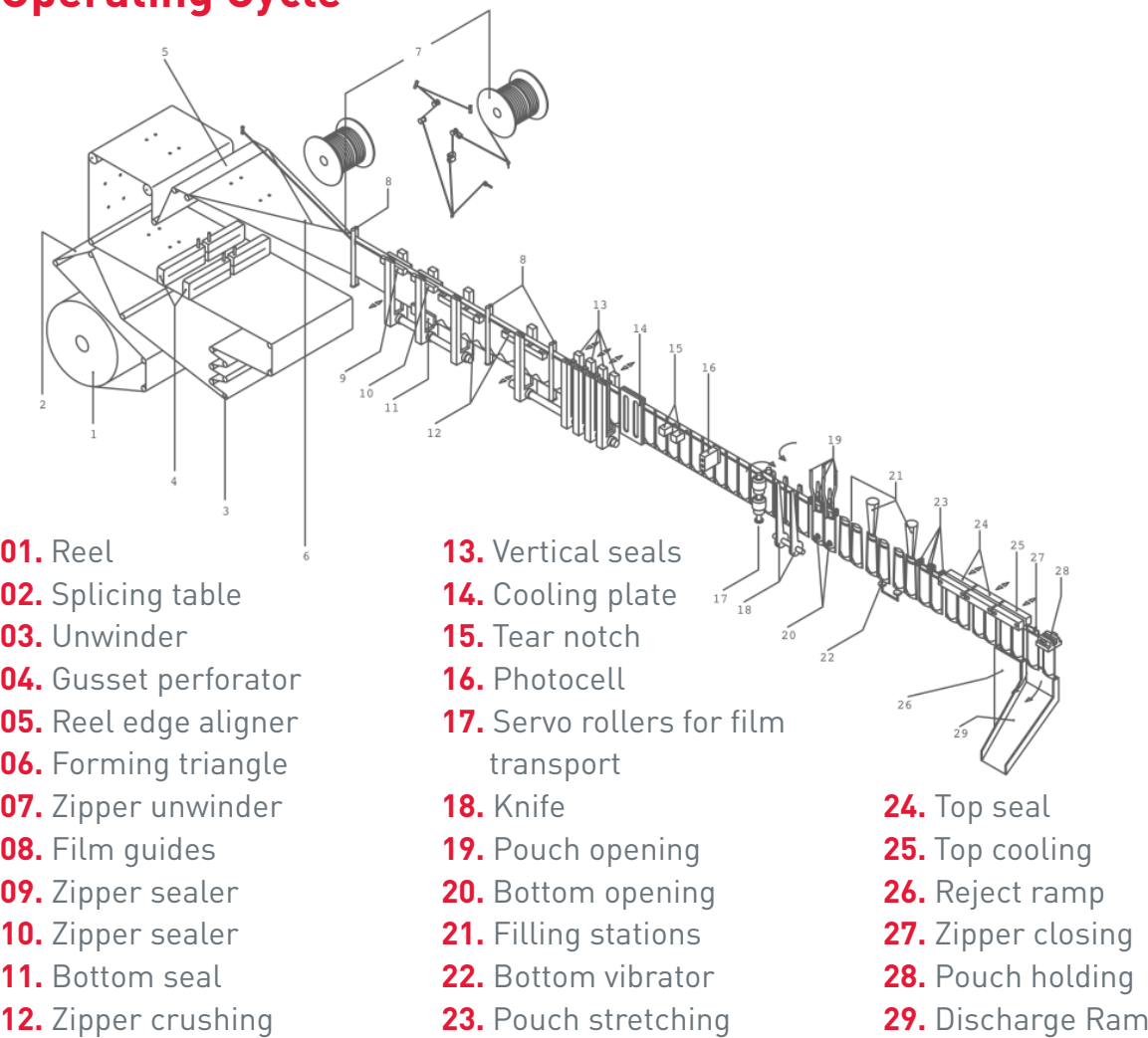
Horizontal Form-Fill-Seal (HFFS) machine for stand-up pouches, operating from a single reel of flexible packaging material, forming the pouch, filling it with product, and sealing.

Machine Highlights

- Duplex, Triplex or Quadruplex operation
- Smart HMI, easy and intuitive
- Mirror execution for footprint optimization
- Three dosing stations for multi-product filling
- Easy size change with guided operations and quick regulations
- Low operating and maintenance costs
- Wide variety of pouch styles available (regular, shaped, top cap, corner cap, front cap, zipper, 3- or 4-side sealed sachets,...)
- Ready to work with 100% recyclable materials



Operating Cycle



Technical Specifications

		Duplex	Triplex	Quadruplex
Min pouch size, W x H	mm	120 x 110 x 30	85 x 110 x 30	85 x 110 x 30
Max pouch size, W x H	mm	180 x 310 x 90	120 x 310 x 60	90 x 310 x 60
Max pouch volume	c.c	1500	500	200
Max output	ppm	120	180	240
Type of material		Heatsealable		
Max reel width	mm	710		
Max reel diameter	mm	600		
Core reel diameter	mm	74 - 78 / 150 - 154		
Electrical data		200 - 480 V / 50, 60 Hz / 3Ph+G		
Machine dimensions, L x A x H	mm	10000 x 2075 x 2420		
Net weight	kg	8600		



SI 280

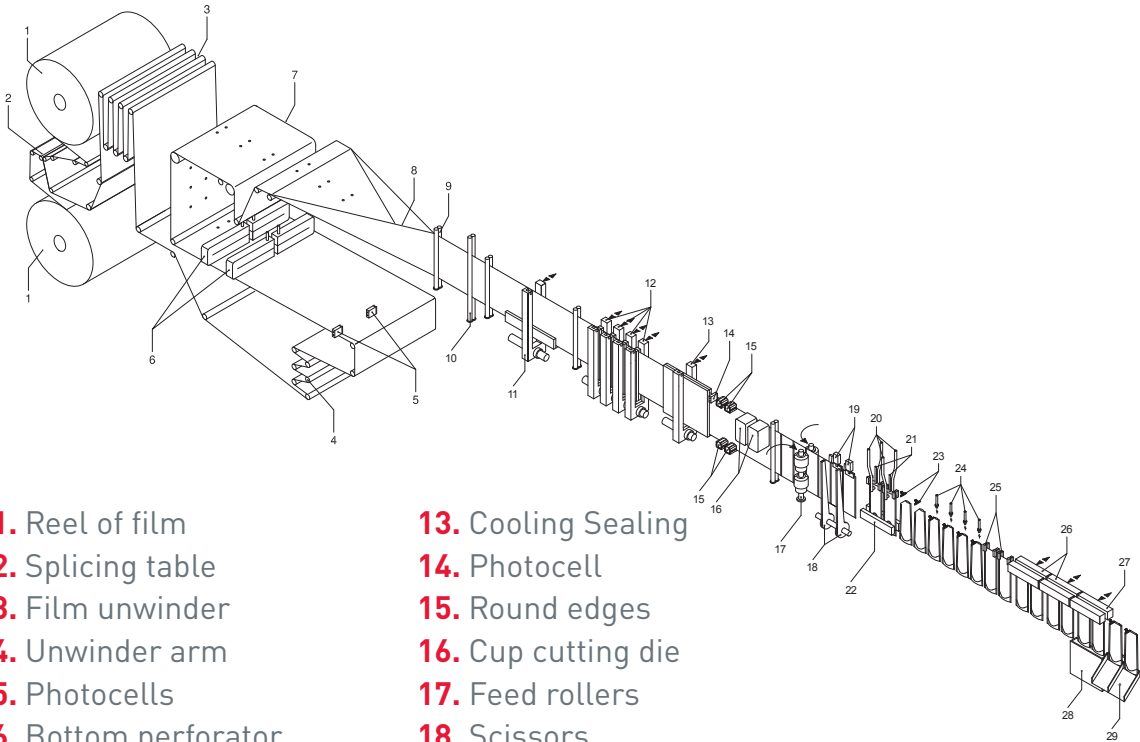
Horizontal Form-Fill-Seal (HFFS) machine for stand-up pouches, operating from a single reel of flexible packaging material, forming the pouch, filling it with product, and sealing.

Machine Highlights

- Simplex, Duplex or Triplex operation
- Smart HMI, easy and intuitive
- Mirror execution for footprint optimization
- Three dosing stations for multi-product filling
- Easy size change with guided operations and quick regulations
- Low operating and maintenance costs
- Wide variety of pouch styles available (regular, shaped, top cap, corner cap, front cap, zipper, 3- or 4-side sealed sachets,...)
- Ready to work with 100% recyclable materials



Operating Cycle



01. Reel of film

02. Splicing table

03. Film unwinder

04. Unwinder arm

05. Photocells

06. Bottom perforator

07. Band aligner

08. Bottom forming triangle

09. Film guide

10. Film guide

11. Bottom sealing

12. Verticals sealing
13. Cooling Sealing

14. Photocell

15. Round edges

16. Cup cutting die

17. Feed rollers

18. Scissors

19. Positioner gripper

20. Top puch opening

21. Pouch opening blower

22. Bottom pouch opening

23. Cap cutting die

24. Product nozzles
25. Static stretching

26. Top sealing

27. Top cooling seals

28. Rejected pouches

29. Outlet ramp

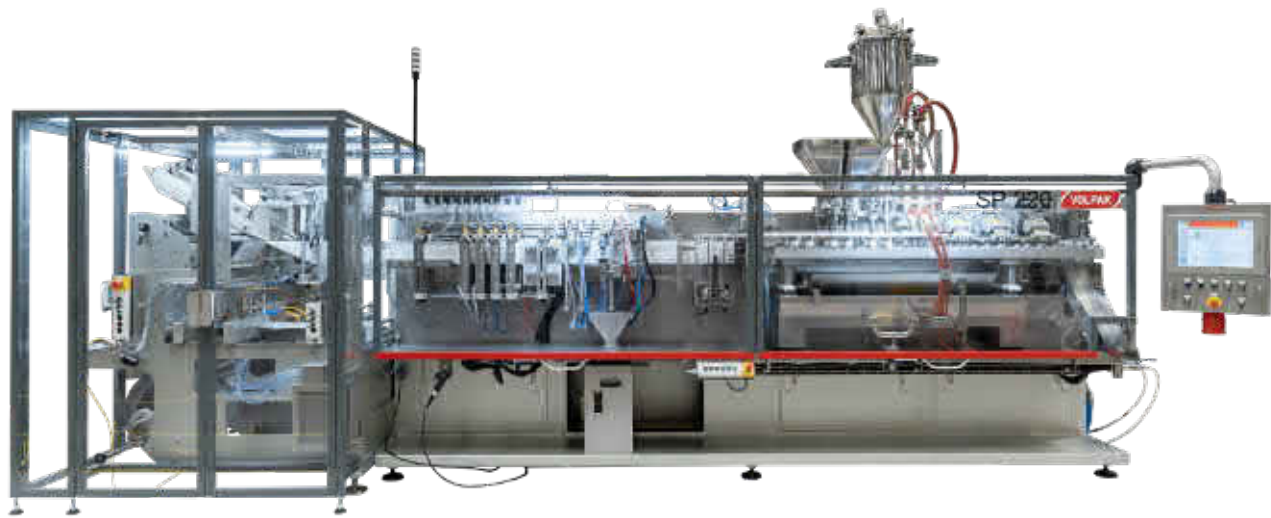
Technical Specifications

		Simplex	Duplex	Triplex
Min pouch size, W x H	mm	75 x 90 x 30	75 x 90 x 30	75 x 90 x 30
Max pouch size, W x H	mm	280 x 310 x 105	140 x 310 x 80	90 x 310 x 60
Max pouch volume	c.c	2500	600	1500
Max output	ppm	80	160	240
Type of material		Heatsealable		
Max reel width	mm	725		
Max reel diameter	mm	600		
Core reel diameter	mm	74 - 78 / 150 - 154		
Electrical data		200 - 480 V / 50, 60 Hz / 3Ph+G		
Machine dimensions, L x A x H	mm	8035 x 1865 x 2150		
Net weight	kg	6000		

VOLPAK SP SERIES:

Horizontal Form-Fill-Seal machines for medium-speed projects, mainly mechanical-driven, and accommodating various options and applicators.





SP 220

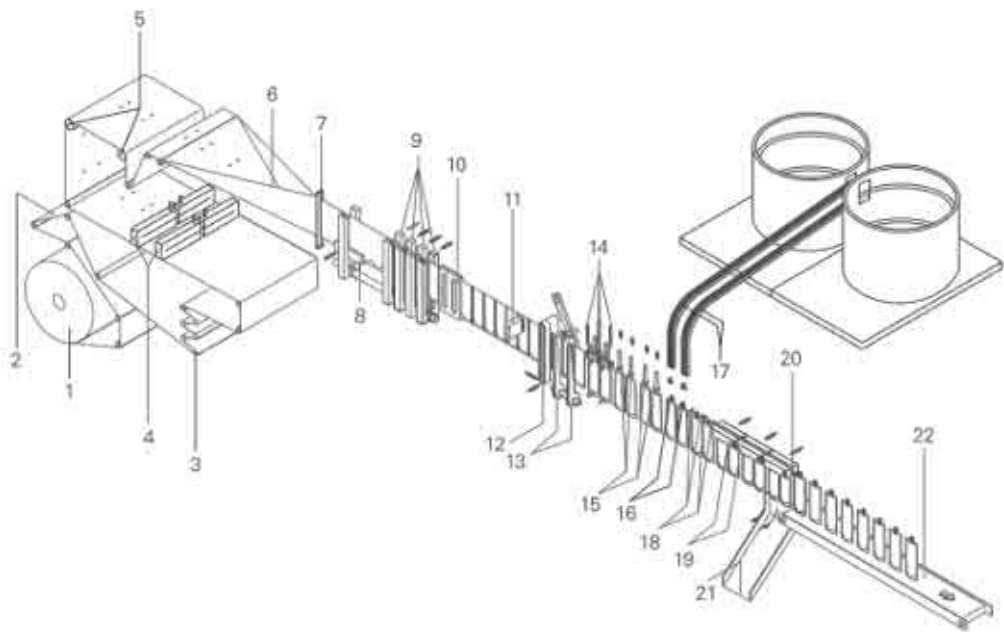
Horizontal Form-Fill-Seal (HFFS) machine for sachets, operating from a single reel of flexible packaging material, forming the pouch, filling it with product, and sealing.

Machine Highlights

- Simplex or Duplex operation
- Smart HMI
- Easy handling and low maintenance costs
- Zipper and cap applicator for re-closable pouches
- Wide variety of sachet formats available both for stand-up or flat pouches
- Ready to work with 100% recyclable materials



Operating Cycle



01. Reel

02. Film splicing

03. Unwinder

04. Perforators

05. Reel aligner

06. Forming triangle

07. Film guides

08. Bottom seal
09. Vertical seal

10. Cooling and flattening

11. Photocell

12. Film transport

13. Knife

14. Pouch opening

15. Filling stations

16. Cap insertion and sealing
17. Cap feeding

18. Pouch stretching

19. Cap and pouch top seal

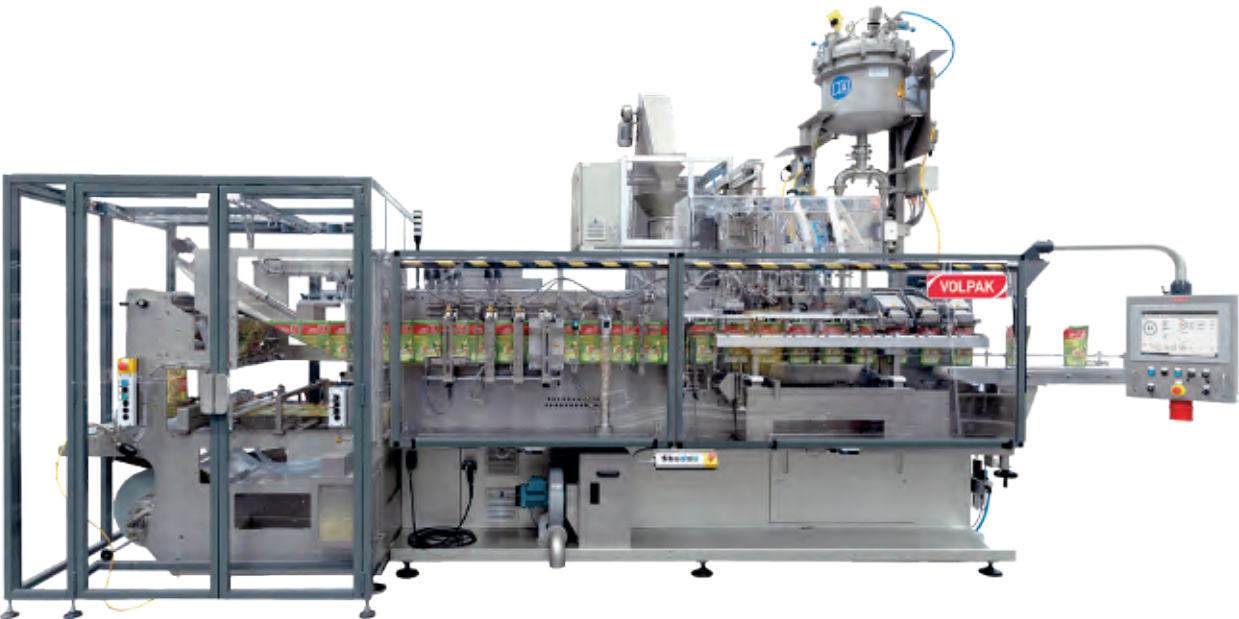
20. Cooling

21. Reject ramp

22. Outfeed belt

Technical Specifications

		Simplex	Duplex
Min pouch size, W x H	mm	70 x 60 / 70 x 100 x 30	50 x 60 / 50 x 90 x 30
Max pouch size, W x H	mm	220 x 270 (x 90)	110 x 270 (x 100)
Max pouch volume	c.c	1200	350
Max output	ppm	100	200
Type of material		Heatsealable	
Max reel width	mm	630	
Max reel diameter	mm	600	
Core reel diameter	mm	74 - 78 / 150 - 154	
Electrical data		220 - 380 - 440 V / 50, 60 Hz	
Machine dimensions, L x A x H	mm	5650 x 1650 x 1800	
Net weight	kg	5750	



SP 170

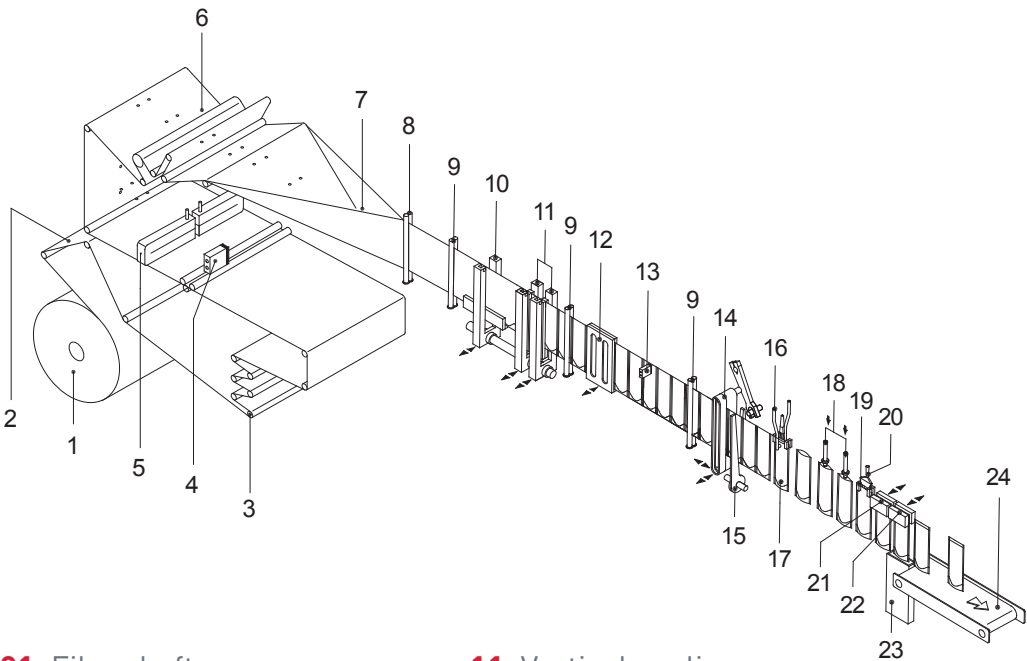
Horizontal Form-Fill-Seal (HFFS) machine for sachets, operating from a single reel of flexible packaging material, forming the pouch, filling it with product, and sealing.

Machine Highlights

- Simplex or duplex operation
- Smart HMI, easy and intuitive
- Two dosing systems can be installed simultaneously
- Space to include additional equipment, such as cameras, printers, labelers...
- Numeric counters for easy size change
- Low operating and maintenance costs
- Wide variety of sachet formats available (3- or 4-side sealed sachets, twin sachets, shaped sachets...)
- Ready to work with 100% recyclable materials



Operating Cycle



01. Film shaft

02. Film splicer

03. Unwinder arm

04. Photocell

05. Perforator

06. Brand aligner

07. Bottom triangle

08. Film guide

09. Film guides

10. Bottom sealing
11. Vertical sealing

12. Cooling sealing

13. Photocell

14. Puller (stroke arm)

15. Scissors

16. Suction cups opening pouch

17. Suction cups opening bottom

18. Dosing station

19. Static stretching
20. Foam suction

21. Top sealing

22. Top cooling seals

23. Rejected pouches

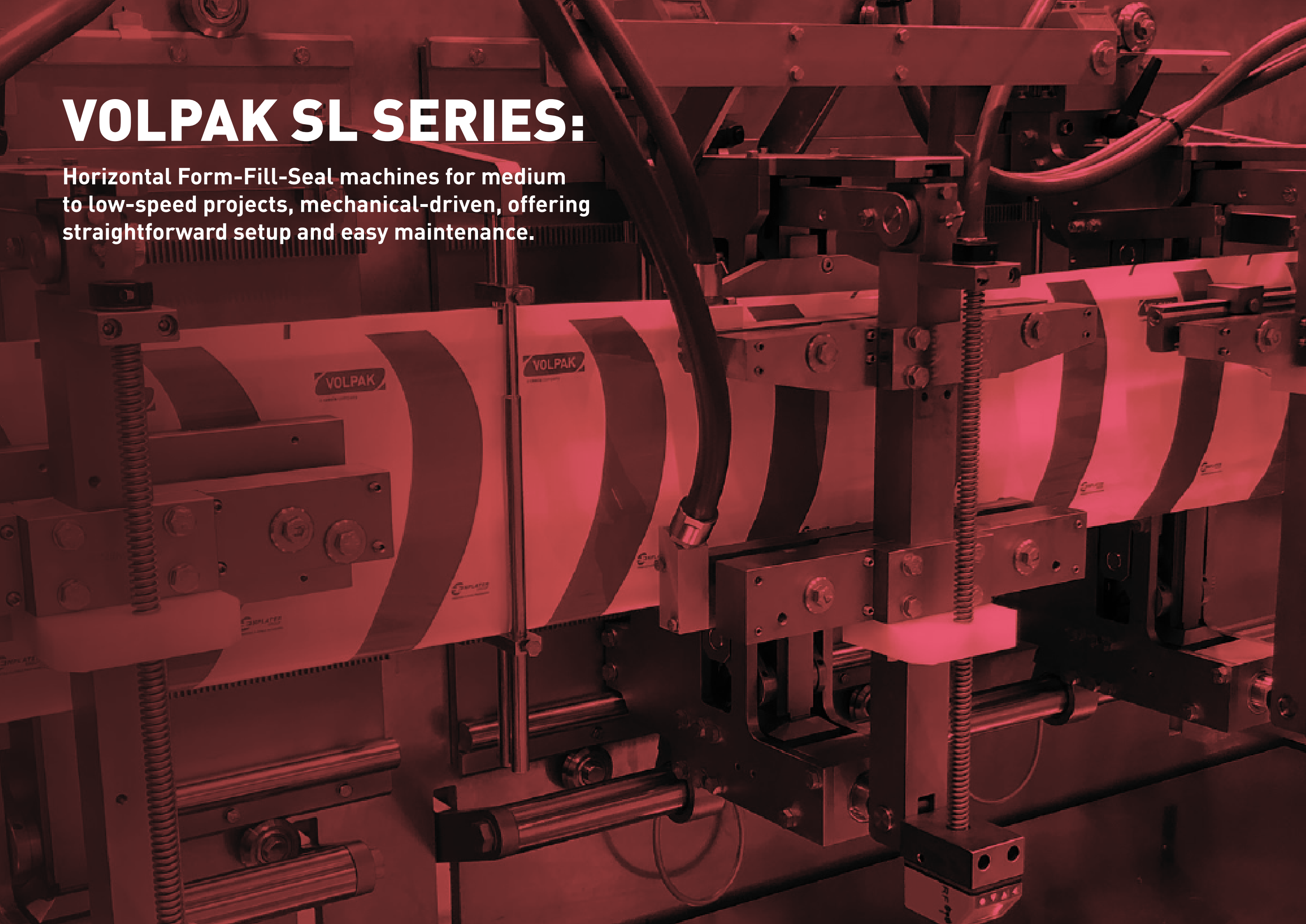
24. Outlet belt

Technical Specifications

		Simplex	Duplex
Min pouch size, W x H	mm	70 x 70 / 70 x 90 x 30	50 x 70
Max pouch size, W x H	mm	170 x 270 (x100)	85 x 270
Max pouch volume	c.c	1000	150
Max output	ppm	100	200
Type of material		Heatsealable	
Max reel width	mm	640	
Max reel diameter	mm	600	
Core reel diameter	mm	74 - 78 / 150 - 154	
Electrical data		220,380,440V / 50, 60 Hz / 3Ph+G	

VOLPAK SL SERIES:

Horizontal Form-Fill-Seal machines for medium to low-speed projects, mechanical-driven, offering straightforward setup and easy maintenance.





SL 220F

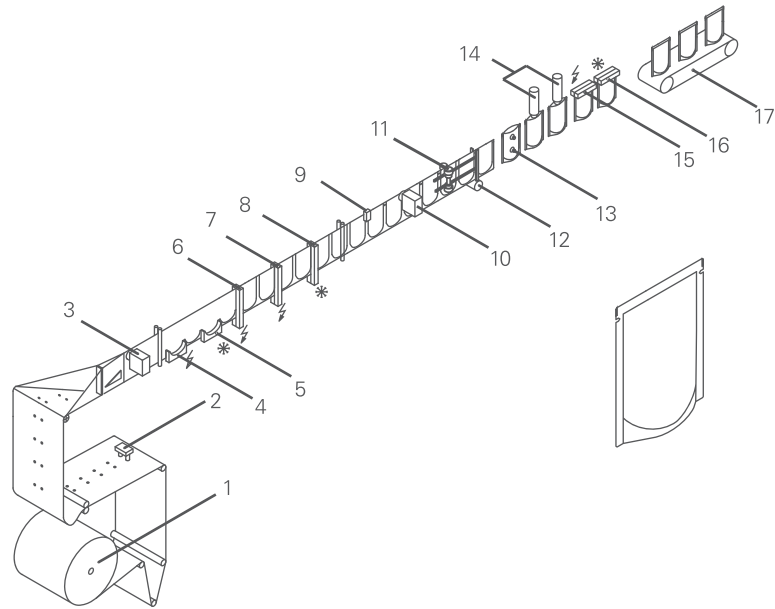
Horizontal Form-Fill-Seal (HFFS) machine for stand-up pouches, operating from a single reel of flexible packaging material, forming the pouch, filling it with product, and sealing.

Machine Highlights

- Smart HMI
- Easy operation and low maintenance cost
- Very versatile machine, ideal for a large variety of pouch formats
- Specially designed to work with zipper and corner cap applications
- Ready to work with 100% recyclable materials



Operating Cycle



01. Reel

02. Reel perforator

03. Photocell (Optional)

04. Bottom sealer

05. Bottom seal cooler

06. Vertical sealer
07. Teflon vertical sealer

08. Vertical seal cooler

09. Coding & tear notch

10. Photocell

11. Film draw

12. Scissors
13. Suction cups

14. Liquid filling station

15. Top sealer

16. Top seal cooler

17. Discharge exit

Technical Specifications

Simplex		
Min pouch size, W x H	mm	100 x 150 x 55
Max pouch size, W x H	mm	220 x 300 x 110
Max pouch volume	c.c	2000
Max output	ppm	60
Type of material		Heatsealable
Max reel width	mm	710
Max reel diameter	mm	500
Core reel diameter	mm	70 - 75
Consumption	kW	4,1
Electrical data		200 - 480 V / 50, 60 Hz / 3Ph+G
Machine dimensions, L x A x H	mm	6220 x 1340 1800
Net weight	kg	2425



SL 170F

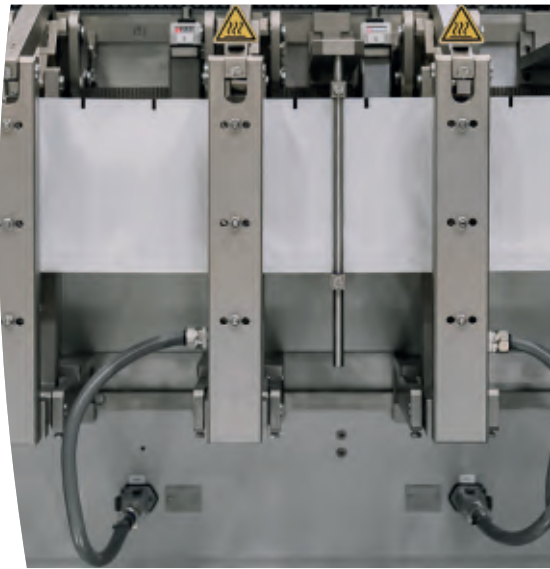
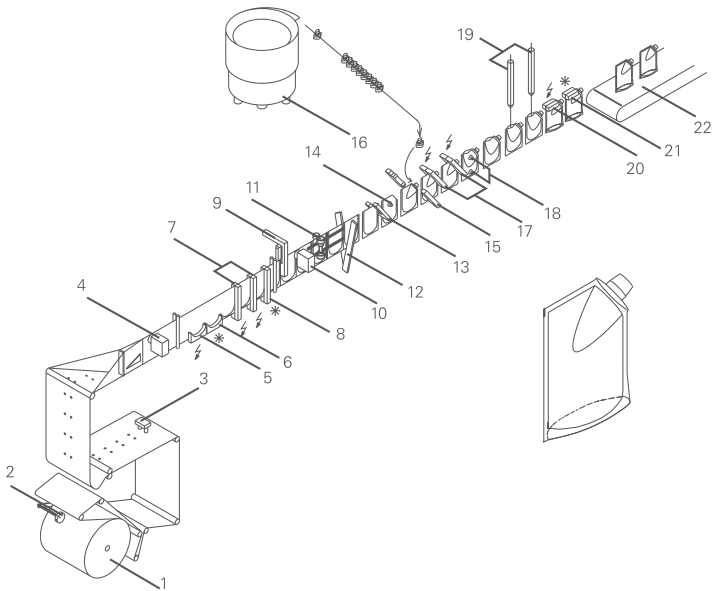
Horizontal Form-Fill-Seal (HFFS) machine for stand-up pouches, operating from a single reel of flexible packaging material, forming the pouch, filling it with product, and sealing.

Machine Highlights

- Smart HMI
- High productivity with low maintenance costs
- Wide range of applicators such as zipper, top cap, corner cap, shapers, and dosers
- Great performance for liquid and semi-liquid products
- Ready to work with 100% recyclable materials



Operating Cycle



01. Reel

02. End of reel detector (Optional)

03. Reel Perforator

04. Photocell (Optional)

05. Bottom sealer

06. Bottom seal cooler

07. Vertical sealer
08. Vertical seal cooler

09. Coding

10. Photocell

11. Film draw

12. Scissors

13. Corner cutting

14. Suction cups

15. Spout applicator
16. Spout feeding

17. Spout sealer

18. Suction cups

19. Liquid filler

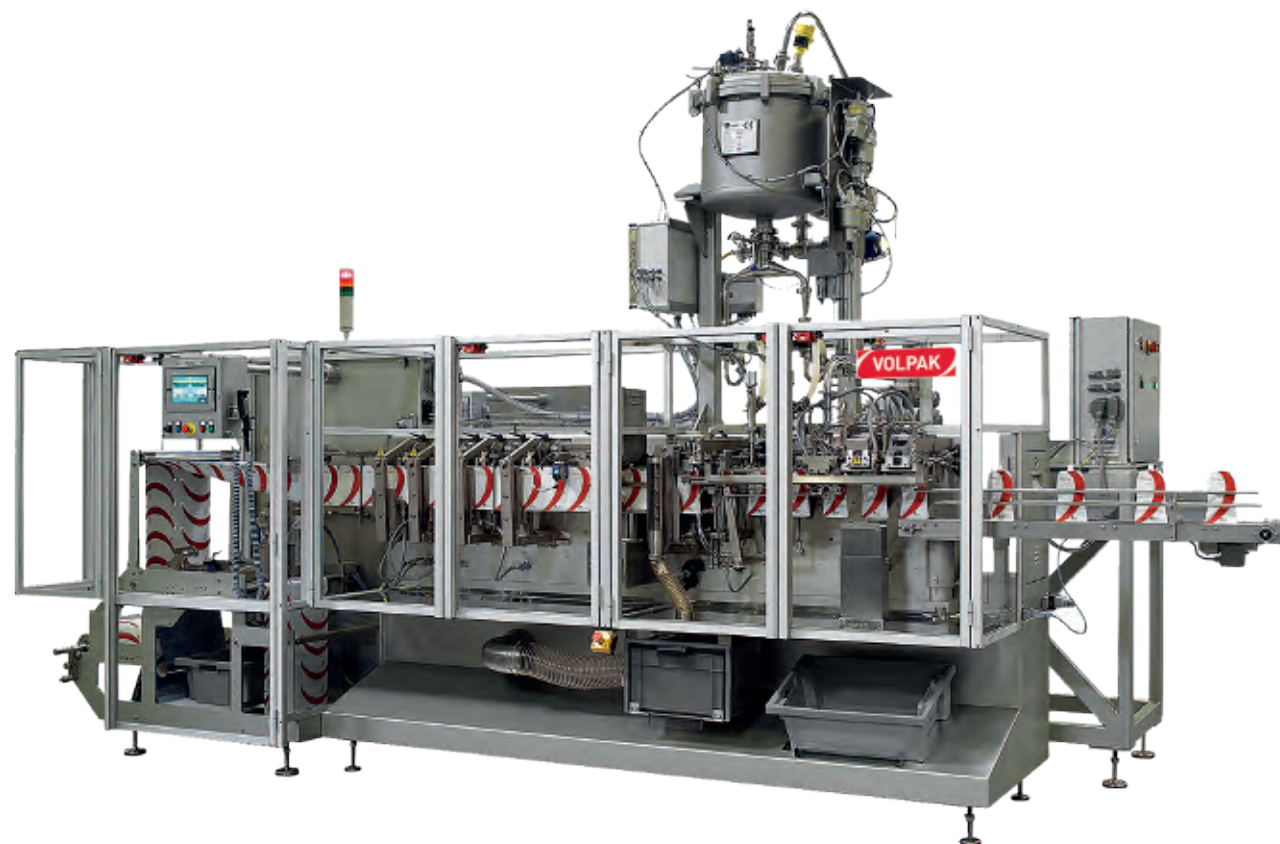
20. Top sealer

21. Top seal cooler

22. Discharge exit

Technical Specifications

		Simplex
Min pouch size, W x H	mm	70 x 150 x 45
Max pouch size, W x H	mm	170 x 275 x 90
Max pouch volume	c.c	1000
Max output	ppm	60
Type of material		Heatsealable
Max reel width	mm	640
Max reel diameter	mm	500
Core reel diameter	mm	70 - 75
Consumption	kW	4,1
Electrical data		200 - 480 V / 50, 60 Hz / 3Ph+G
Machine dimensions, L x A x H	mm	4000 x 1300 x 1800
Net weight	kg	2000



SL 140F

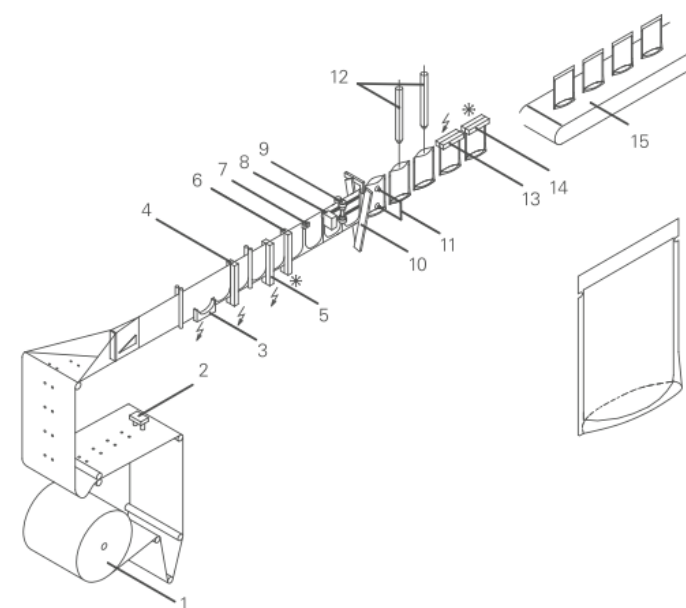
Horizontal Form-Fill-Seal (HFFS) machine for stand-up pouches, operating from a single reel of flexible packaging material, forming the pouch, filling it with product, and sealing.

Machine Highlights

- Soft movement of the walking beam allowing reaching high speeds for liquids packaging
- High versatility for small format packaging
- Maximum robustness and guarantee of reliability
- Smart HMI
- Easy handling and low maintenance costs
- Zipper and cap applicator for re-closable pouches
- Specially designed for shaped pouches
- Ready to work with 100% recyclable materials



Operating Cycle



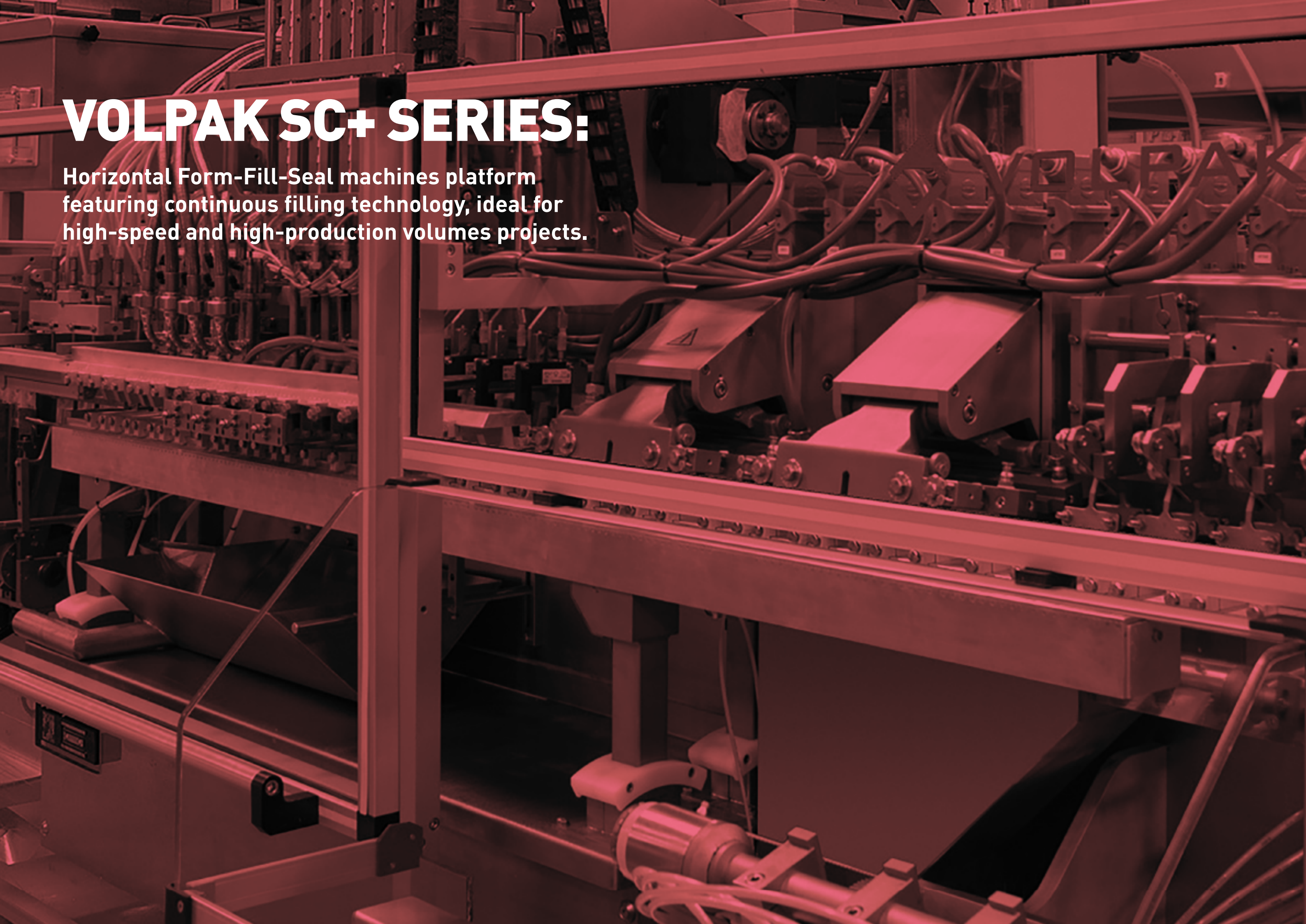
- | | | |
|----------------------------|---------------------------------|-----------------------------------|
| 01. Reel | 06. Vertical seal cooler | 11. Opening |
| 02. Reel perforator | 07. Tear notch | 12. Liquid filling station |
| 03. Bottom sealer | 08. Photocell | 13. Top sealer |
| 04. Vertical sealer | 09. Film draw | 14. Top seal cooler |
| 05. Vertical sealer | 10. Scissors | 15. Discharge exit |

Technical Specifications

		Simplex
Min pouch size, W x H	mm	70 x 100 x 45
Max pouch size, W x H	mm	140 x 225 x 70
Max pouch volume	c.c	650
Max output	ppm	60
Type of material		Heatsealable
Max reel width	mm	520
Max reel diameter	mm	450
Core reel diameter	mm	70 - 75
Consumption	kW	3,9
Electrical data		200 - 480 V / 50, 60 Hz / 3Ph+G
Machine dimensions, L x A x H	mm	6765 x 1650 x 1800
Net weight	kg	6400

VOLPAK SC+ SERIES:

Horizontal Form-Fill-Seal machines platform featuring continuous filling technology, ideal for high-speed and high-production volumes projects.





SC+ HFFS

Horizontal Form-Fill-Seal platform featuring continuous filling technology, ideal for high speed and high-production volumes projects.

SC+ machine range, a breakthrough innovation in Stand-up pouch machinery reaching beyond production and performance levels.

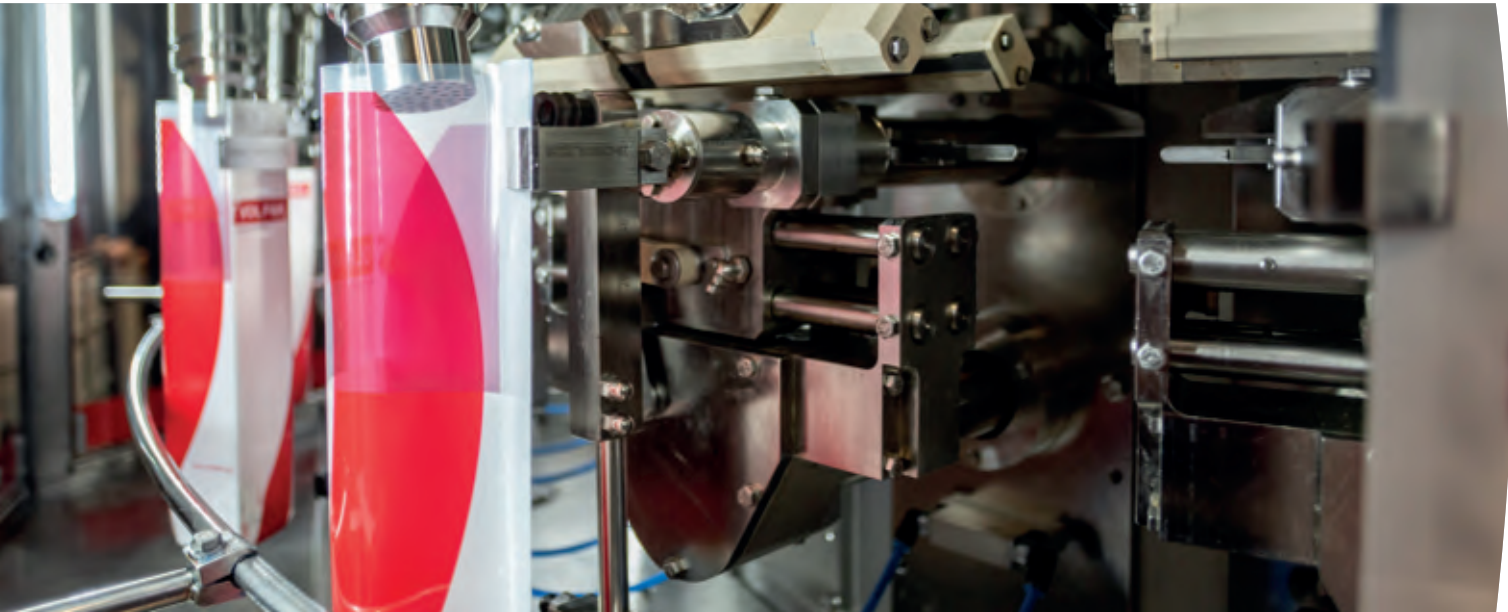
Machine Highlights

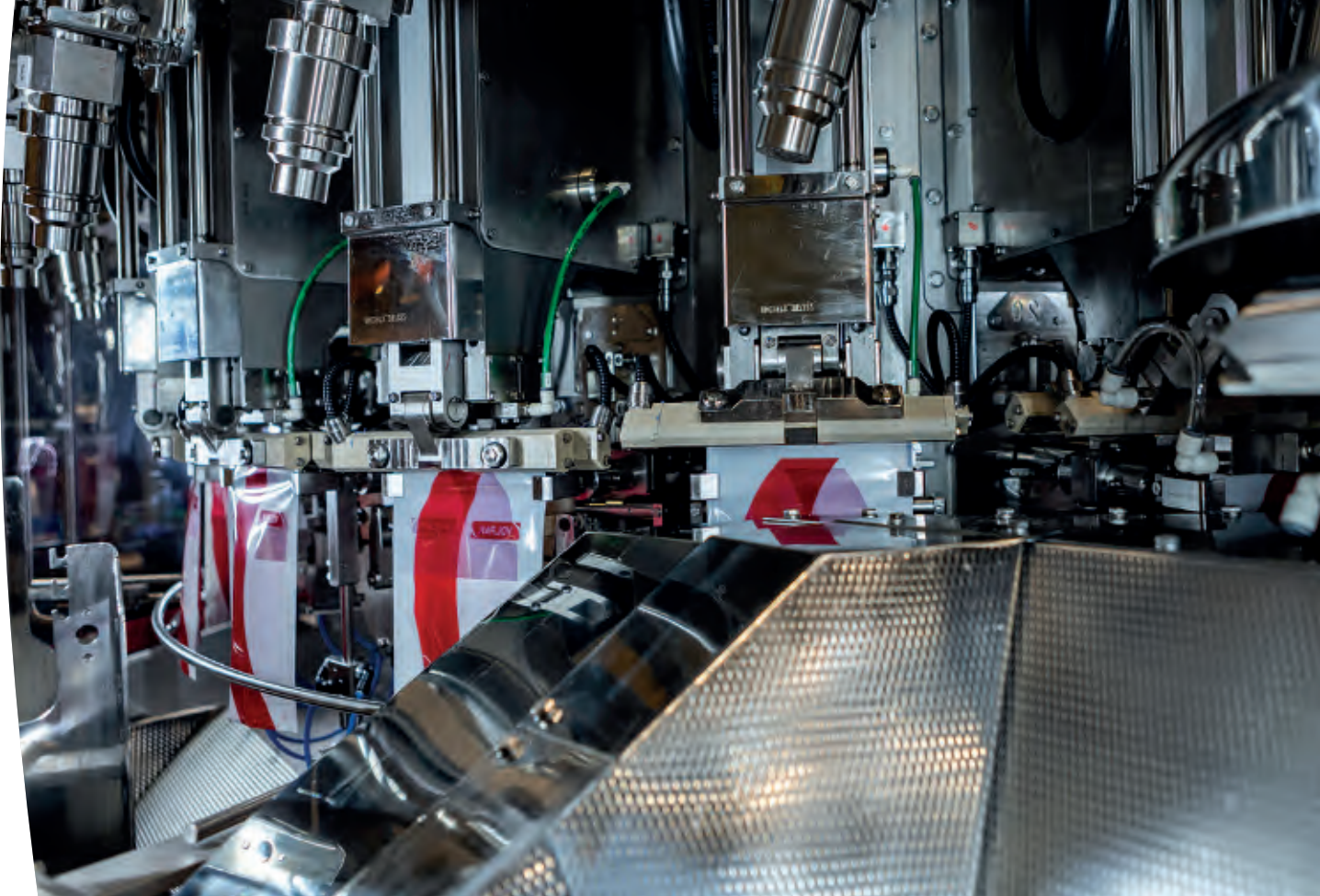
- Unique cutting: Contactless system for minimum wear and maintenance
- Complete pouch stations: Short and smooth movements for pouch opening, filling, and sealing. Simple and easy operation
- Continuous filling: Large process window for superior fill and seal conditions
- Filling turret compact and smart: High speed production while keeping gentle pouch manipulation
- Fast size change: Automatic and guided regulations for fast format change
- Ready to work with 100% recyclable materials



Technical Specifications

		SC+ 180	SC+ 240	SC+ 300
Min pouch size, W x H	mm	85 x 110 x 30		
Max pouch size, W x H	mm	180 x 310 x 120	240 x 310 x 120	300 x 310 x 120
Max pouch volume	c.c	1000	2000	3000
Max output	ppm	400	320	250
Type of material		Heatsealable		
Max reel width	mm	745		
Max reel diameter	mm	600		
Core reel diameter	mm	148 - 156		
Consumption	kW	70		
Machine dimensions, L x A x H	mm	17600 x 5500 x 5200		





SC+ PREMADE

Premade Form-Seal platform featuring continuous filling technology, ideal for high speed and high-production volumes projects.

SC+ Premade, a breakthrough innovation in pre-made pouch machinery reaching production and performance levels never known before.

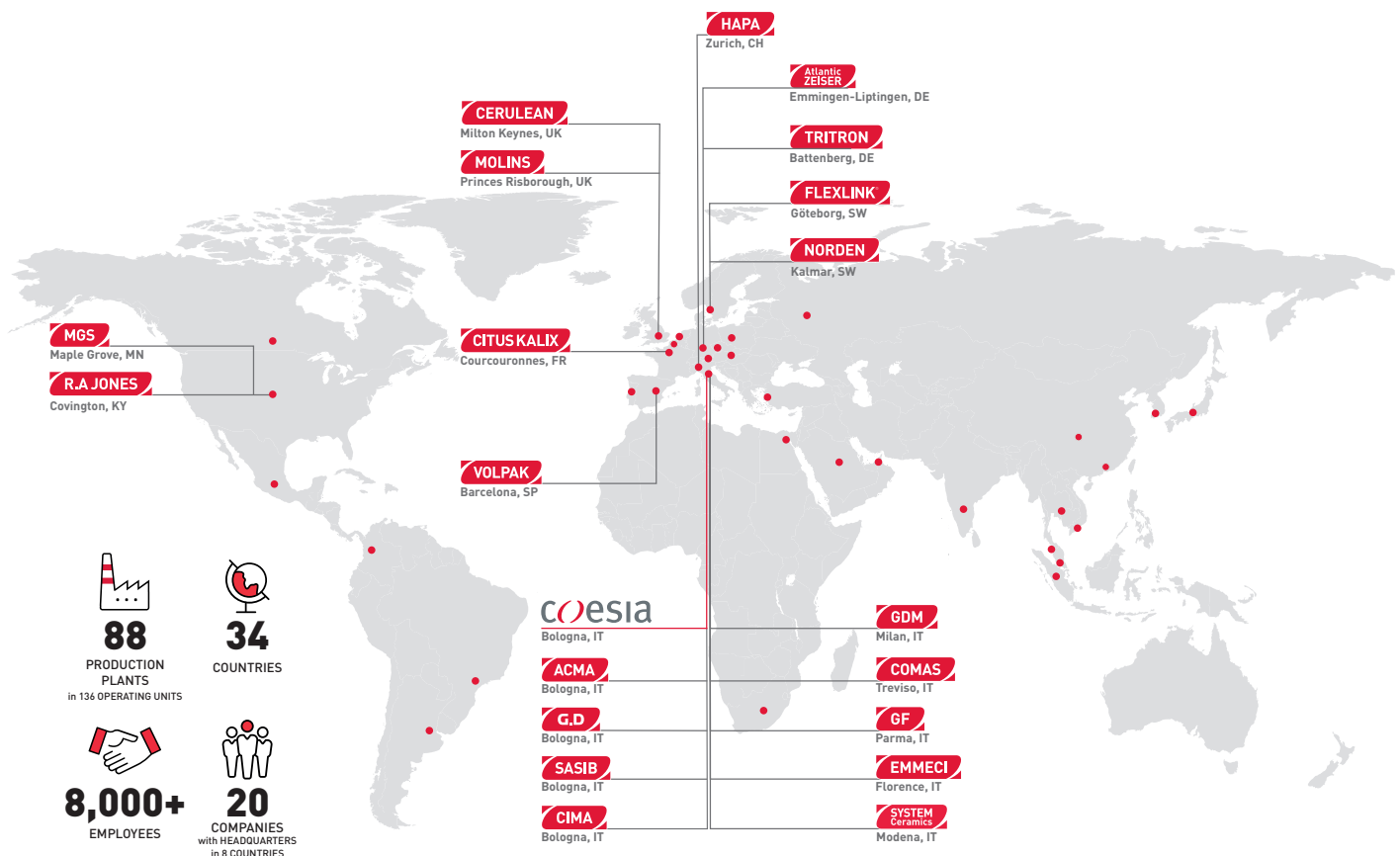
Machine Highlights

- Fast: Increasing production up to 300ppm
- Compact: Optimizing space thanks to small footprint
- Flexible: Using less material and producing less waste
- Connected: Featuring future-proof advanced technologies
- Sustainable: Suited for recyclable mono materials, compostable or paper-based pouches

Technical Specifications

		SC+ Premade 180	SC+ Premade 240	SC+ Premade 300
Min pouch size, W x H	mm	85 x 110 x 30	110 x 110 x 30	110 x 110 x 30
Max pouch size, W x H	mm	180 x 400 x 120	240 x 400 x 120	300 x 400 x 120
Max pouch volume	c.c	1000	2000	3000
Max output	ppm	250	250	200
Type of material		Heatsealable		
Max reel width	mm	N/A		
Max reel diameter	mm	N/A		
Core reel diameter	mm	N/A		
Consumption	kW	70		
Machine dimensions, L x A x H	mm	6900 x 5400 x 5200		

Coesia Group in the world



COESIA is a group of innovation-based industrial and packaging solutions companies operating globally, headquartered in Bologna, Italy.

Coesia's companies are leaders in the sectors of:

- **Advanced automated machinery**
- **Industrial process solutions**
- **High-performance transmissions**

Coesia's customers are leading players in a broad range of industries, including Consumer Goods, Tobacco, Healthcare, Aerospace, Racing & Automotive and Electronics.

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