

# SM+





## Flexibility and versatility team up

The SM+ platform combines advanced **mechatronic technology** with unmatched versatility. The SM+ technology is available in both HFFS and Premade configurations. Also, a Hybrid configuration is possible, that seamlessly integrates both reel-fed and premade options for ultimate flexibility.

Designed to meet the dynamic needs of FMCG markets, the SM+ range can produce and manage a **wide variety of pouch styles**—including Flat, Stand-Up, Inverted, and uniquely shaped designs.

Designed to handle different types of materials such as monomaterial or multilayer plastic films and paper-based, the SM+ range offers an ideal solution for sustainable pouching projects, delivering outstanding performance without compromise.

## Designed to drive the wave of mass customization in a world of increasing complexity

SM+ is perfectly suited for highly demanding production settings characterized by **tight time-to-market** requirements, **highly variable productions** in product and format, and the need for a **truly modular packaging solution**.

Combining rigorous efficiency with outstanding flexibility makes the SM+ range the perfect ally for FMCG manufacturers looking to stay on top of the wave of **mass customization**.

- Schedule batches on short notice without disrupting operational efficiency
- Reduce inventory levels and connected costs
- Address all order sizes efficiently, maintain profitability and adapt to market shifts
- Easy updates through retrofits thanks to the modular design



# UNMATCHED FLEXIBILITY

## Enjoy all the benefits of innovation



**Unmatched Flexibility:** pouch sizes or styles along with products can be switched at demand thanks to SM+'s ability to efficiently run small batches of different SKUs. This allows for mass customization with minimum waste.



**High Scalability:** from small custom batches to large runs each machine station is fully independent and can be activated at any time. The same piece of equipment can be enlarged at any moment if demand increases.



**Sustainable Ready:** the SM+ can operate mono-material films or recyclable packaging materials, while minimizing power and air consumption.

## SM+ | Bring versatility and flexibility across markets

The exceptional flexibility of the SM+ operations will benefit all FMCG markets facing a rising need to quickly adapt production for small personalized batches or variety packs.

These include Sauces & Condiments, Home Care, Pet Food and Food (from cereals to dairy products or snacks).

**You create. Volpak cares.**





The magnetic track technology, based on magnetic carriers enables smooth and flexible motion for pouches around the Filling & Sealing stations.

## Turning complexity into opportunities

The SM+ technology is developed to handle complex projects with ease. Equipment from this range can handle different products, pouch styles and feeding options with seamless and quick adjustments.

# Enable your plant with maximum versatility

## Customizable filling

Switch between multiple dosing systems and adjust each filling module to optimize production for products with different flow requirements at any time.

## Handle diverse spouts and closures

Adapt seamlessly to a variety of pouch designs, spout sizes, and cap placements for versatile applications.

## Combine HFFS and Premade operations

Effortlessly switch between reel-fed and premade pouch modes with minimal downtime.

## Full control on pouch making

Manage film printing accuracy, adapt and store sealing settings: pressure, time and temperature.

Every magnetic shuttle is independent, just as the modular stations placed on the circular track in the Fill & Seal area.

From buffers to grippers, from sealing bars to cutting knives, all stations can be regulated to work with monomaterials or paper-based.



## True modularity in action

### Unwinder module

**Continuous motion** unwinder equipped with two film reel shafts for quick splice (auto-splicing option available) and automatic changeover for bottom sealing perforators. Two models available (740 and 950 mm width).

### Pouch Forming module

Film buffer equipped with servo-driven **film tension control**. **Parallel vertical sealing jaws** ensure even pressure along sealed area, jaw stopped position is open wide to avoid overheating. Integrated electrical cabinets, controlling previous and next module. Full accessibility makes this module extremely easy to clean. Automatic changeover through HMI.

### Buffer & Cutting module

**Servo buffer** to adapt motion to single operation mode for single cutting. Individual cutting blade with **adjustable speed**, maximum accuracy and cut repeatability. Automatic size change adjustment. Tear notch and die cut options available.

### Fill & Seal module

**Independent shuttles** with grippers hold and transport each pouch on a fully programmable **magnetic motion track** where **modular stations** are easily repositioned according to production needs. Programmable dosing time. Automatic changeover through HMI.

### Pouch Feeder module

**Multi-size pouch feeder** with a capacity of up to 4 lanes. Pouch feeder designed to process different SKUs simultaneously and automatically manage pouch size change.



# One platform, a world of options

## Infeed options

The SM+ platform can be configured with different infeed options:

- **HFFS** (Horizontal Form-Fill-Seal), reel-fed option includes the Unwinder and Pouch Forming modules.
- **Premade**, option using pre-formed pouches, includes the Pouch Feeder module.
- **Hybrid** configuration, seamlessly integrating both reel-fed and premade options for ultimate flexibility.

## Modular layout

The versatility of this platform does not stop here! The SM+ modules can be combined in many different layouts to **accommodate** your unique needs.



## Technical features

|                    |     |             |
|--------------------|-----|-------------|
| Min pouch size*    | mm  | 100x100x40  |
| Max pouch size*    | mm  | 320x400x150 |
| Volume with gusset | c.c | up to 6.000 |
| Max output         | ppm | up to 260   |
| Max reel width**   | mm  | 740 or 950  |
| Max reel diameter  | mm  | 600         |
| Core reel diameter | mm  | 152         |

\* Width x Height x Gusset

\*\*Two unwinder models available

## Efficient and eco-friendly operations

- **Fast automatic changeovers:** automatically switches pouch styles, sizes, and products in 5 - 15 minutes with one HMI command.
- **Configuration-mode fast change:** seamlessly switches configurations (two, three or four pouches per cycle) in 15 minutes — unmatched in the market.
- **Future-proof design:** easily add new stations or modules to increase capacity as demand grows or handle new formats.
- **Fast reconfiguration:** independent modules, quick adjust for expansions, new products, or upgrades with minimal downtime.
- **Film integrity features:** continuous motion unwinder, film tension control, parallel sealing jaws prevent material stretching and overheating.
- **Extra sealing stations:** allow for lower sealing temperatures needed for eco-friendly packaging film.
- **Quick heat transfer:** reduces sealing time and boost productivity improving efficiency and energy consumption. Option for digital sealing.
- **Optimized power & air consumption:** minimize power and air usage, by lowering the machine's carbon footprint



## One platform, a world of options

### SM+ 560

|              |             |           | Duplex      | Triplex     | Quadruplex  |
|--------------|-------------|-----------|-------------|-------------|-------------|
| Format       | (WxHxG)     | Min. mm   | 100x100x40  | 100x100x40  | 100x100x40  |
|              |             | Max. mm   | 315x400x150 | 195x380x120 | 140x280x100 |
| Volume       | With gusset | Max. ml   | 6000        | 2500        | 1000        |
| Output       |             | Up to ppm | 130         | 195         | 260         |
| Reel size    | Outer diam. | mm        |             | 600         |             |
|              | Max width   | mm        |             | 950 / 740   |             |
| Machine size | Min length  | mm        |             | 9770        |             |
|              | Max length  | mm        |             | 11630       |             |

[1\*] With off-center grippers max width possible is 200mm

[2\*] With off-center grippers max width possible is 140mm

[3\*] With off-center grippers max width possible is 240mm

[4\*] With off-center grippers max width possible is 165mm

# SM+ 470

| Format       | (WxHxG)     | Duplex    |                  | Triplex          |
|--------------|-------------|-----------|------------------|------------------|
|              |             | Min. mm   | 100x100x40       | 100x100x40       |
|              |             | Max. mm   | 250x400x150 (1*) | 155x310x120 (2*) |
| Volume       | With gusset | Max. ml   | 4000             | 1500             |
| Output       |             | Up to ppm | 130              | 195              |
| Reel size    | Outer diam. | mm        | 600              |                  |
|              | Max width   | mm        | 950 / 740        |                  |
| Machine size | Min length  | mm        | 9770             |                  |
|              | Max length  | mm        | 111770           |                  |

# SM+ 640

| Format       | (WxHxG)     | Duplex    |             | Triplex     | Quadruplex |
|--------------|-------------|-----------|-------------|-------------|------------|
|              |             | Min. mm   | 100x100x40  | 100x100x40  | 100x100x40 |
|              |             | Max. mm   | 320x400x150 | 210x400x120 | 160x400x90 |
| Volume       | With gusset | Max. ml   | 6000        | 2700        | 1500       |
| Output       |             | Up to ppm | 140         | 200         | 240        |
| Reel size    | Outer diam. | mm        | 600         |             |            |
|              | Max width   | mm        | 950 / 740   |             |            |
| Machine size | Min length  | mm        | 14.000      |             |            |
|              | Max length  | mm        | >20.00      |             |            |

# 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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