



**Fill & Seal Machines:
Proven Technology for
your Success.**



Simplex Series: The Easy Start.

For Example: Dry Pet Food in the Pouch

The high flexibility of the SN FS-machines concerning pouch size and design, is of great importance to pet food producers. It is possible to convert the system from small stand-up pouches with or without zippers to large side gusset pouches with top or front sliders within a very short time.

The integrated recipe administration supports the user in the conversion of product quantity, weight and pouch size: Pouch gripper, speed, servo motorized adjustable product flow control (option) and other parameters are available at any time and increase the productivity of the packaging machine.



Spoon insertion



Filling of screenwash in stand-up pouches with corner spout



Servo motorized product flow control for large volume products



Processing a top slider pouch

Highlights of our FS Machines

- Solid and proven technology on smallest foot-print
- Hygienic design and easy cleaning
- Operation and machine status via touch-screen
- Long life and high quality machine components
- Format change without format parts in shortest time
- Central motor driven adjustment of pouch gripping units
- Peripheral units can be easily integrated (check-weigher, printer etc.)
- Dosing equipment: Slide doser, auger doser, scales, micro doser for smallest volumes, dosing pumps, seed dosing equipment and many different dosing units for individual solutions

Duplex Series: Double Performance.

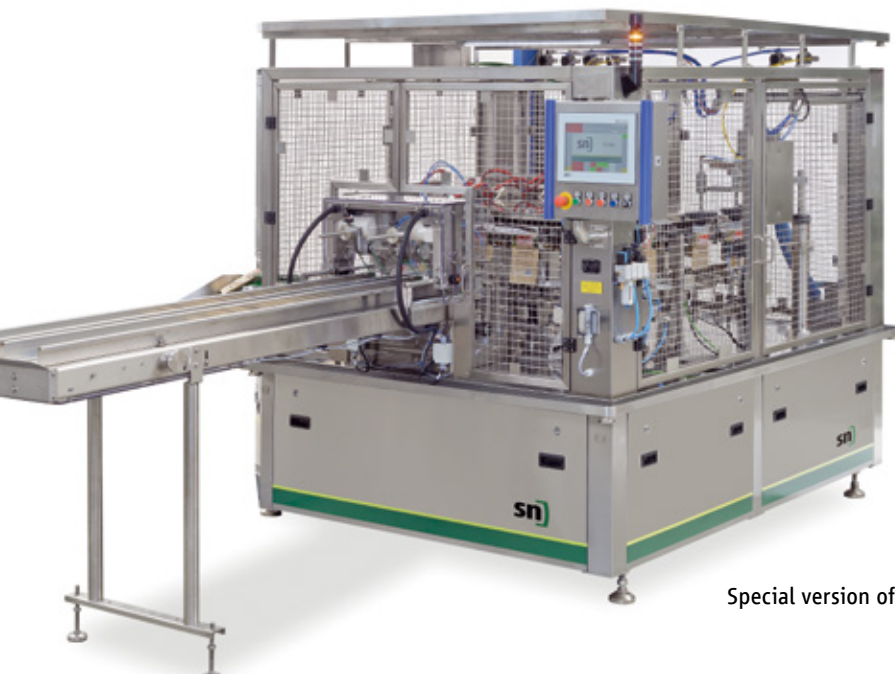
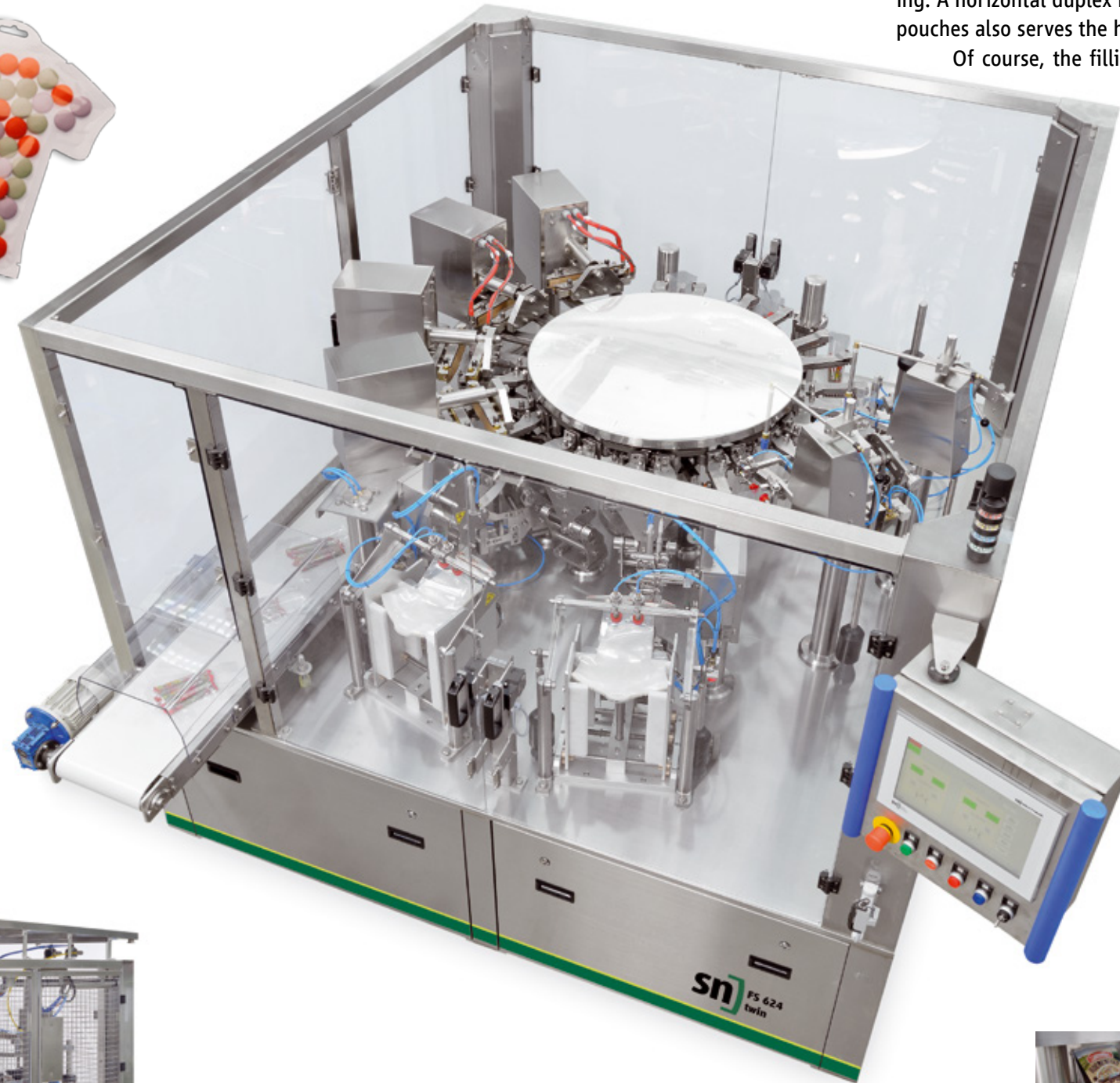
For Example: Duplex Processing of Contour Pouches

In order to arouse maximum attention at the point of sale, pouches with special shapes and contours are being used more and more frequently. The FS-machines of SN break this task excellently even in the duplex version. There are a variety of dosing units for wet and dry products available to fill up to 90 pre-made pouches per minute. The flexibly usable stacking magazine for flat pouches is just one detail for quick changeover to different pouch formats.



For Example: Implementation of Special Requests

As a special purpose machine manufacturer, SN has decades of experience in taking account of special customer requirements. Naturally, our FS-machines are also individually adapted to the product-specific requirements.



Special version of the machine covering

For Example: Cold and Hot Filling of Soups in Stand-up Pouches

Particular attention must be paid to the guaranteed compliance with hygiene regulations when processing foods. Our FS-machines guarantee maximum process reliability. For example, it is possible to steam the headspace and double seal the top seam after filling. A horizontal duplex magazine for the processing of stand-up pouches also serves the hygienic handling of sensitive foodstuffs.

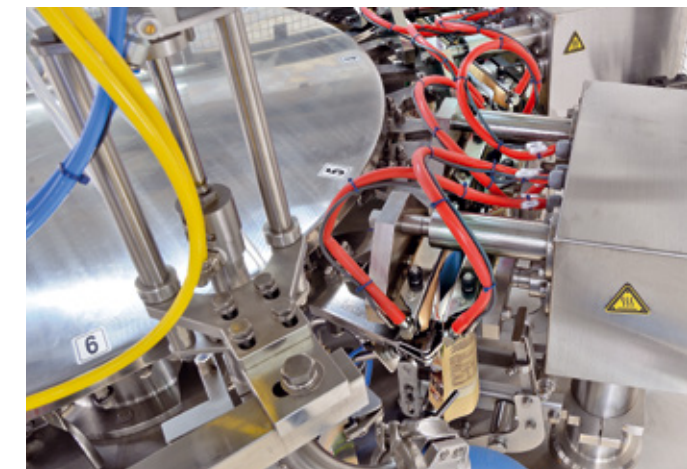
Of course, the filling of corner spout pouches is possible on both, simplex and duplex machines.



Examples of stand-up pouches



Duplex filling of liquids



Double sealing and cooling of the top seam



Line consolidation to one track

Perfect Filling and Sealing of Pre-Made Pouches: Fill & Seal Technology Made by SN!

SN offers a wide range of machine models that fill and seal pre-made pouches of nearly any size and pouch type. With our horizontal FS-machine series, we have developed a product line that combines a robust, hygienic and compact machine design with the advantages of the smallest possible footprint.

Granulates, liquids, pasty products, powders, pet food, seeds, household or personal care products, products from the pharmaceutical industry, soups and sauces – an almost endless variety of products of any kind and consistency can be filled up.

Our machines are easy to use (e.g. HMI touch panel for machine visualization) and thanks to the format change, the machines offer enormous flexibility for your production requirements within shortest time*. The basic functions of the system are: Pouch transfer from the magazine to the rotary table, opening, filling and top sealing of the pouch. The multitude of additional options gives the possibility to fulfill all individual requirements of our customers.

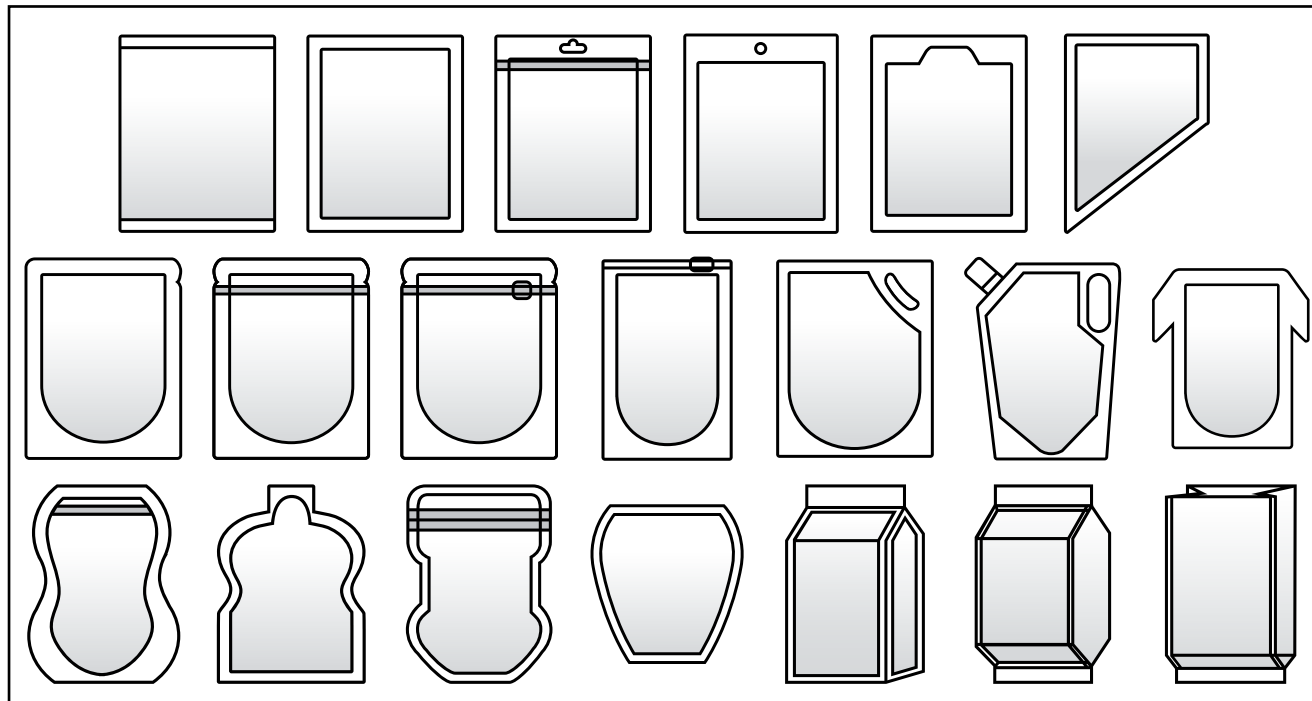
Our FS-machines can be equipped with gas and steam injection, spoon feeding, dust extraction, servo-controlled filling pumps for liquids or pastes and many other features.

Each machine is also available in a wet cleaning capable version. The filling of highly flammable liquids is also possible thanks to an optional safety equipment (according to the ATEX guidelines) of the machine.

All machines are manufactured according to the high SN standards and fulfill the latest EU regulations for safety, hygienic and electrical execution. Product touching parts are made of stainless steel 316.

SN machines grant a reliable function for long time and all production environments.

* without dosing and depending on the machine equipment



Our FS-machines are able to handle pre-made stand-up pouches with zipper or corner spout, side gusset pouches, contour pouches and pouches with an extraordinary design.

Overview SIMPLEX Machines¹⁾

Machine	Stations	Max. Pouch Width [mm]	Max. Pouch Length [mm] ²⁾	Max. Pouches per Minute ³⁾
FS 632	6	160 – 320	425	45
FS 824	8	100 – 240	350	45
FS 830	8	160 – 300	425	45
FS 835	8	200 – 350	425	40
FS 840	8	250 – 400	425	35
FS 924	9	100 – 240	350	45
FS 1024	10	100 – 240	350	45

Overview DUPLEX Machines¹⁾

Machine	Stations	Max. Pouch Width [mm]	Max. Pouch Length [mm] ²⁾	Max. Pouches per Minute ³⁾
FS 624 Twin	6	100 – 240	350	80
FS 816 Twin	8	100 – 160	350	80
FS 820 Twin	8	100 – 200	350	80
FS 811 Duplex	8	90 – 110	350	90
FS 814 Duplex	8	100 – 140	350	90

¹⁾ further FS-machines on request

²⁾ enlargement of format range on request

³⁾ depending on filling characteristics and pouch size

Standard Equipment

Pouch magazine
 Pouch control (no pouch → no filling)
 Deflation of pouches before sealing
 Cooling of top sealing seam
 Automatic adjustment of pouch grippers
 Operation via touch-screen
 Recipe administration
 Independent PID control of each heating
 Single wire labeling
 Festo pneumatic components
 PLC Siemens
 Teleservice with the Siemens PLC

Optional Equipment

Wet cleaning properties
 ATEX version
 Reclosure systems
 Nitrogen gassing
 Steam injection
 Spoon feeding device
 Additional top sealing
 Extension of pouch magazine
 (further details on request)



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