



**Welcome to the world
market leader for pouch
packaging of seeds.**



Uniquely customized.
Uniquely economical.

Aiming for growth with the most economic way of pouch packaging.

With more than 45 years of experience in packing seeds, a wide range of machinery, individual project management and internationally recognized experts in pouch packaging, SN is pursuing one single goal: to develop and manufacture the most economic machine for your seed packaging.

As global leader for horizontally working FFS and FS rotary machines SN offer customized pouch-packaging technology for almost all products, pouch types and production capacities. SN focusses particularly on dosing techniques which are gentle on the primary product. Additions such as plant labels dispenser, coding devices, etc. are available for all pouch types.

Consultation, development, production and service – SN bundles experience gained in 50 years by 5 German companies. The result: high technology “Made in Germany” which is at home in the most renowned companies around the world.



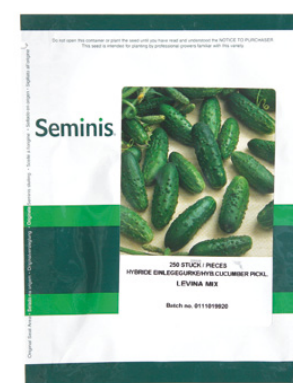
Standard pouch



Germ-proof pouch



Side-sealed pouch



Professional pouch



Chip coding



Plant label dispenser



FB V / MK 4

Seed packaging machines

Name	Type	Output*	Design
FB V 80-100	vertical	up to 100 pouches / min.	Simplex
FM 1	rotary machine	up to 240 pouches / min.	Simplex / Duplex
FM 1 FS	rotary machine	up to 80 pouches / min.	Simplex
FM 1 Combi FFS / FS	rotary machine	up to 240 pouches / min.	Simplex / Duplex
FBM S1	rotary machine	up to 100 pouches / min.	Simplex
MK 3 / MK 4	rotary machine	up to 90 pouches / min.	for pre-made paper bags

* depending on the filling product characteristics and pouch size

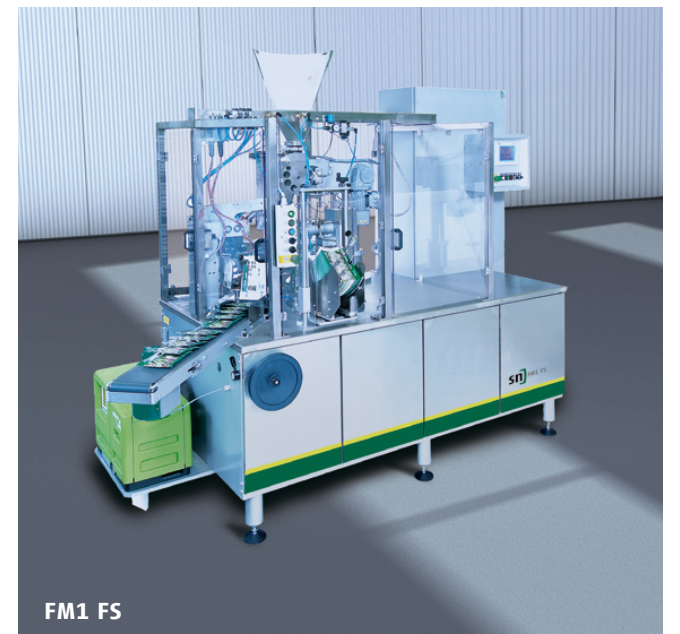
SN ideas benefit your machinery.

With SN machines you may pack seeds in traditional as well as in innovative types of pouches, depending on your preference and consumer demand. The current range of machinery includes 5 basic types which can be combined or equipped with additional components to suit your individual requirements.

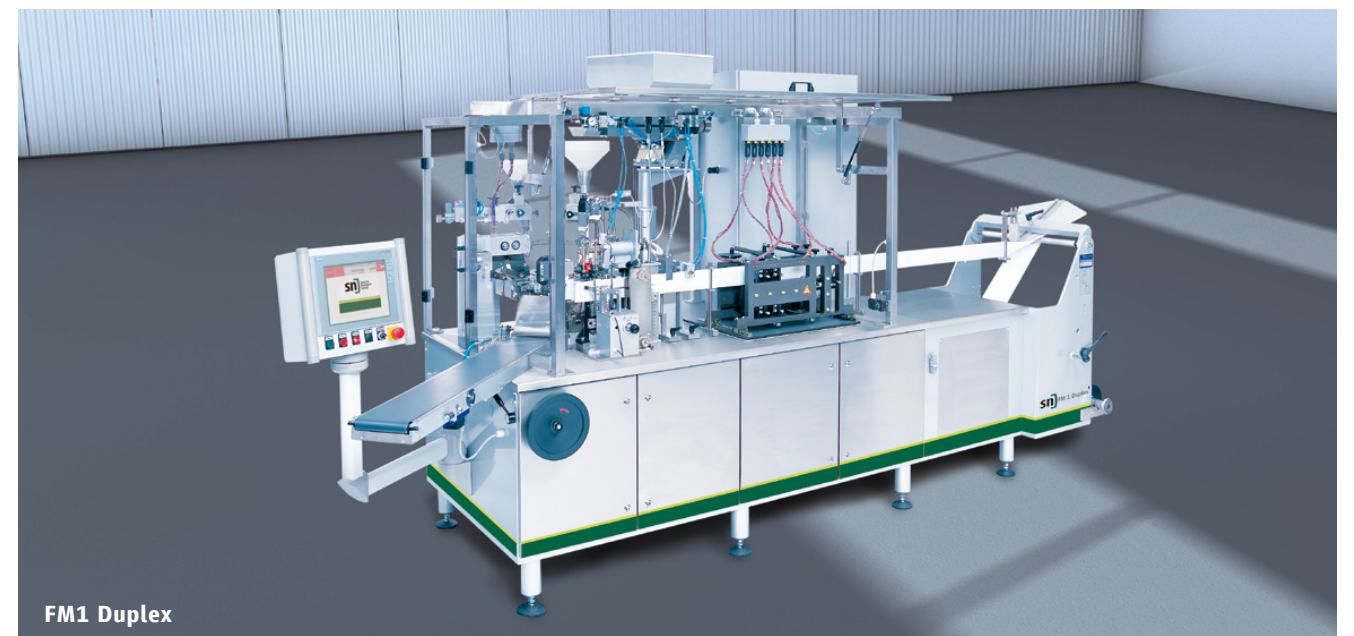
The sealing machine FB is ideal for producing germ-proof packages, with the insertion machines Höller MK3 and MK4 germ-proof packages are inserted in pre-manufactured paper pouches, with the machine series FM 1 FS and FM 1 Combi you can produce and handle not only traditional pouches but also stand-up, contour and two-chamber pouches. When both machines are combined anything you can imagine is doable. Ask SN!



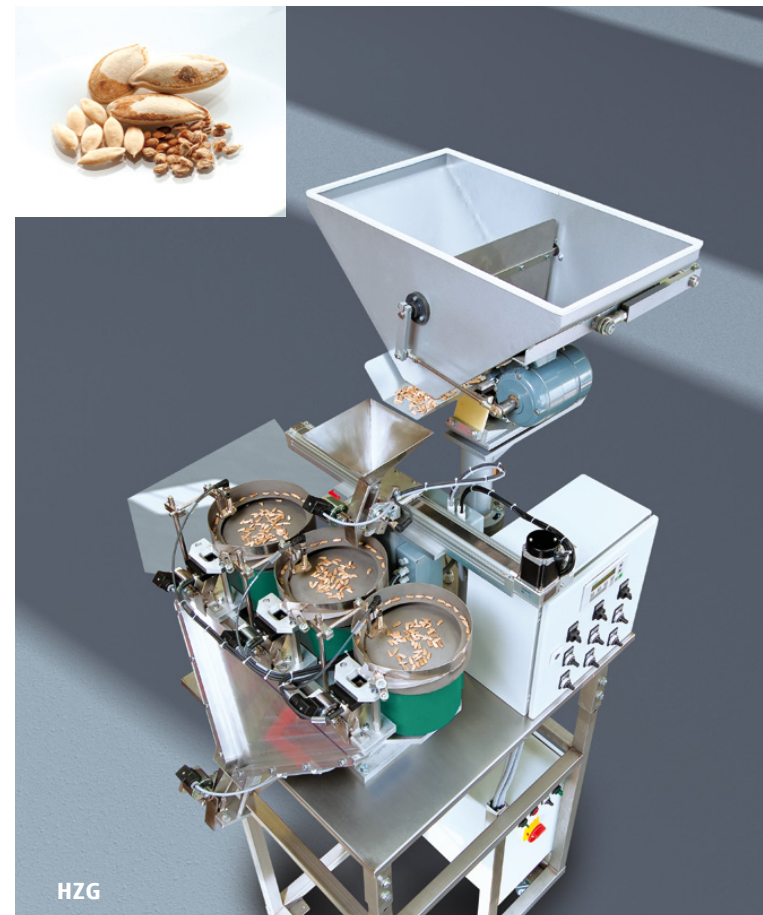
FBM S1



FM1 FS



FM1 Duplex



Maximum precision for perfect growth.

All dosing devices are developed further in a continuous manner with the focus on maximum precision and most gentle handling of the single grain. All dosing aggregates are available as mobile units and can be utilized either as stand-alone component or as exchangeable dosing device on various machines. All FM machines can be equipped with any of the advanced SN dosing devices.

For handling cucumber or tomato seed the single grain counting machine EZG 1 is the ideal choice whereas special seeds for flowers, such as Tagetes, can be handled most gently by the dosing device RTV 1. The micro dosing unit MD2 is especially flexible in its use due to its very compact size, for example as a table type with foot switch or as a single dosing unit on packaging machines. The piston doser KD 1 allows changing filling volumes, e.g. for peas or beans and special grain sizes.

Dosing systems

Name	Type	Filling product	
EZG 1 / HZG	Single grain counter	seed	combination of multiple EZG counting devices possible
RTV 1	Bowl feeder	nonflowing seeds (Mary Flower)	in combination with feeder and strewing unit
MD 2	Micro doser	free flowing seeds	change parts for different sizes available 0.4 - 0.61 ccm / 0.1 - 1.8 ccm / 0.31 - 10.05 ccm*
KD 1	Piston doser	legumes seed	change parts available from 2.5 - 380 ccm

* other pouch sizes on request

Special equipment / Options

Name	Type	Capacity
BP	Bundling machine	up to 100 pouches / min.
SEZ	Plant label dispenser	up to 80 pouches / min.
	Magnetic stripe dispenser	up to 80 pouches / min.
	Coding device	up to 100 pouches / min.
STA	Cascade / stacking device	up to 100 pouches / min.



SN seed specialists offer their expertise.

No matter if you aim to grow with a new SN machine, if your existing equipment asks for an inspection or if you require a complete machine overhaul: Norbert Selbach will be happy to assist you.

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