

*With the series „SN Product Information“ we provide information about special projects and present interesting news about the company SN. Your ideas and suggestions are always very welcome.*



## Tasty Chocolate Snacks

In early 2016 SN Maschinenbau GmbH delivered a HFFS duplex machine to the manufacturer of America's most beloved chocolate covered snacks.

After successful start-up of the FBM 22 the customer produces 140 stand-up pouches per minute which are easily reclosable by a zipper.

Up to 7,5 oz (215 grams) of delicious chocolate pretzels are filled by a multi head scale and safely sealed by a swiveling top sealing device that allows generous access for cleaning and maintenance.

Packed in a perfect pouch the new product was successfully launched to the US market in May of this year.



*The duplex models of the FBM 22 series are able to produce pouches up to a width of 190 mm. The machine execution varies according to the product to be packed. Options like wash-down execution, gas flush or ultrasonic sealing can be added easily.*





## Project Example: Filling of screen wash in stand-up pouches with corner spout.

**The task:** A Scandinavian producer seeks to fill three liters of screen wash. The packaging shall be user-friendly (light weight, easy handling, little waste) and inexpensive to produce. In addition, the easily inflammable content must be packed securely and well presentable in store.

**The solution:** A pre-made pouch with corner spout and carrying handle is filled and sealed on our horizontal rotary pouch filler FS 830 with servo-driven pump. The laminate has to withstand both the heavy weight and the ethanol-containing product.

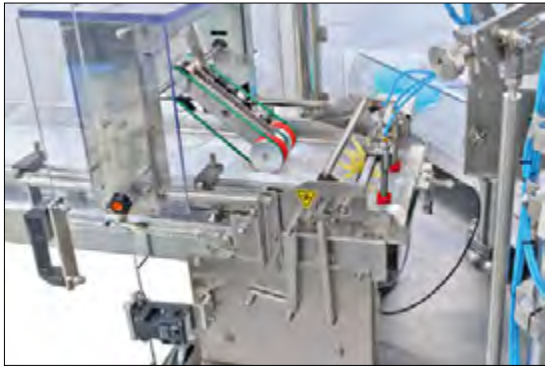
For this project the FS 830 was equipped with a few new technical developments. The main focuses were:

- safe production
- high production rate
- little foam generation



In order to meet these requirements SN developed the following solutions:

- special pouch opening
- double-filling
- ideal size of the filling heads
- under level filling with low filling pressure
- removing foam remains by suction air



After entering the horizontal rotary pouch filler the pouch is pulled and held open completely by means of suction cups on the upper and lower part of the pouch and two inserting, synchronized swivels.

In order to meet the requirements of this special product and output rate the filling process is divided between two machine stations. A servo-driven filling head is inserted rapidly into the pouch, lifted up slowly during the filling process (1,5 liters) and finally, when the pouch is filled to its half, removed again quickly. This process is repeated at the next station where the pouch receives the second 1,5 liters in the same way.

The advantage of this technical development: the foam building of the product is reduced to a minimum.

Finally, the little remaining foam and air are sucked off (optimizing the pouch volume). The flawless seal is created by a thermic double-seal during which the filled pouch is supported mechanically. At the final of the eight stations of this rotary table the head-seal is cooled and the pouch transferred to the outlet conveyor belt.



In order to meet the requirements of a product containing ethanol, the machine was built in accordance to ATEX guidelines and is TÜV certified. Prerequisites for this certification were, for example, the stainless steel execution (wet cleaning) with circumferential gutter as well as an ethanol-exhaust and gas detectors which are placed above and below the machine table.

The FS 830 is suitable for pouch sizes up to 300 x 420 mm. Thanks to tool-free format change-overs, product change times below 15 minutes can be realized. The setting of the formats is furthermore simplified by mounted scales. Via integrated recipe control all format-depending parameters can be saved and recalled through the SN Smart-Touch operator panel.



**New member of the SN team:  
Robert Grunder**

*Since the beginning of 2016 SN has intensified its activities in the area of fill & seal machines. With Robert Grunder we have gained a highly-qualified product manager for this field. Robert Grunder has more than 20 years of experience in service and sales as a specialist for horizontal FS-rotary machines.*

*Robert Grunder is your contact at SN for technical consultation and sales concerning FS-machines.*

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## Trade shows 2016

We look forward to seeing you at our events:



**Empack (Brussels) 21.09. - 22.09.**



**Taropak (Poznan) 26.09. - 29.09.**



**FachPack (Nuremberg) 27.09. - 29.09.**



**PPMA (Birmingham) 27.09. - 29.09.**



**Agroprod mash (Moscow) 10.10. – 14.10.**



**PACK EXPO (Chicago) 06.11. - 09.11.**



**Gulfood Manufacturing (Dubai) 07.11. - 09.11.**

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