

AUTOMATIC FILLER FOR BAG IN BOX

BF 2500



ZEVATHENER

2, rue du Clos Sainte Catherine
94360 Bry sur Marne
FRANCE

tel : +33 (0)1 48 82 33 68

fax : + 33 (0)1 48 82 33 71

E-mail : commercial@zevathener.fr

www.zevathener.fr

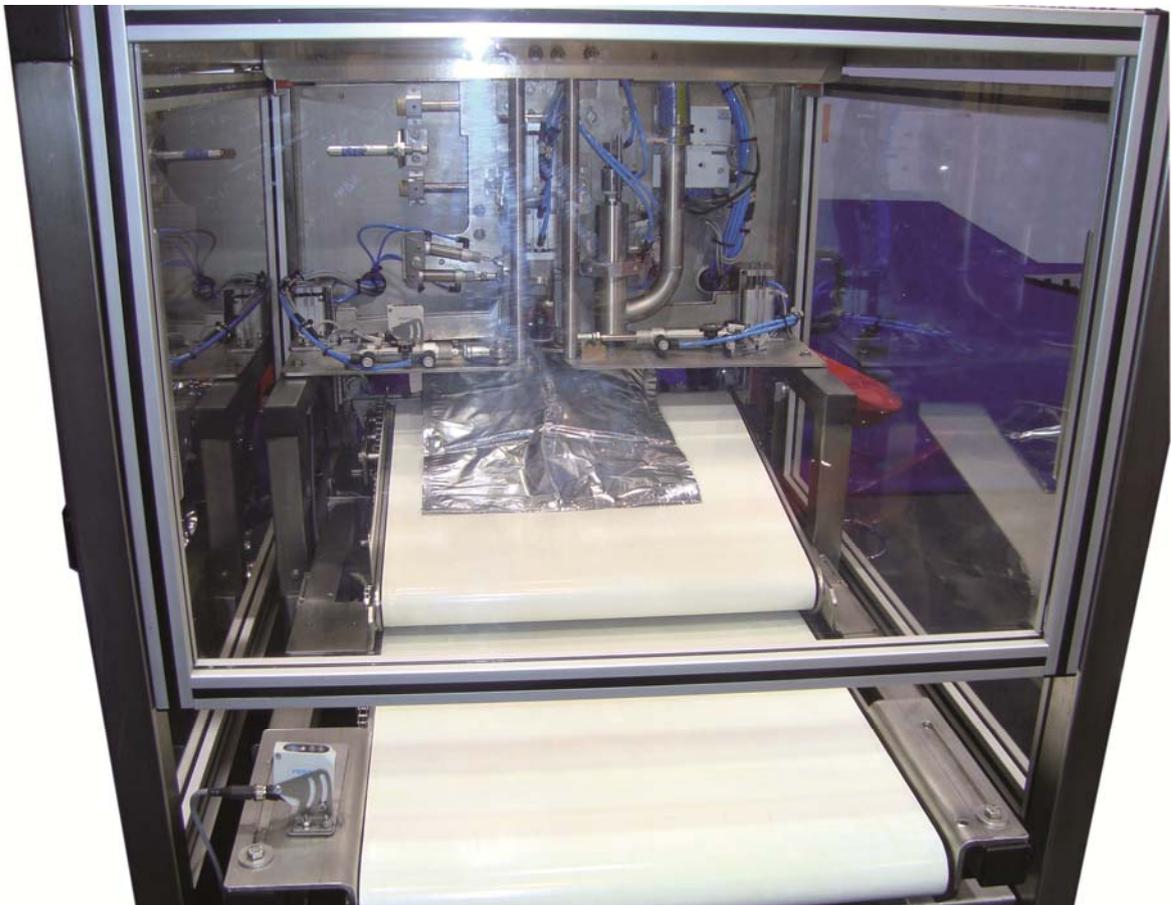
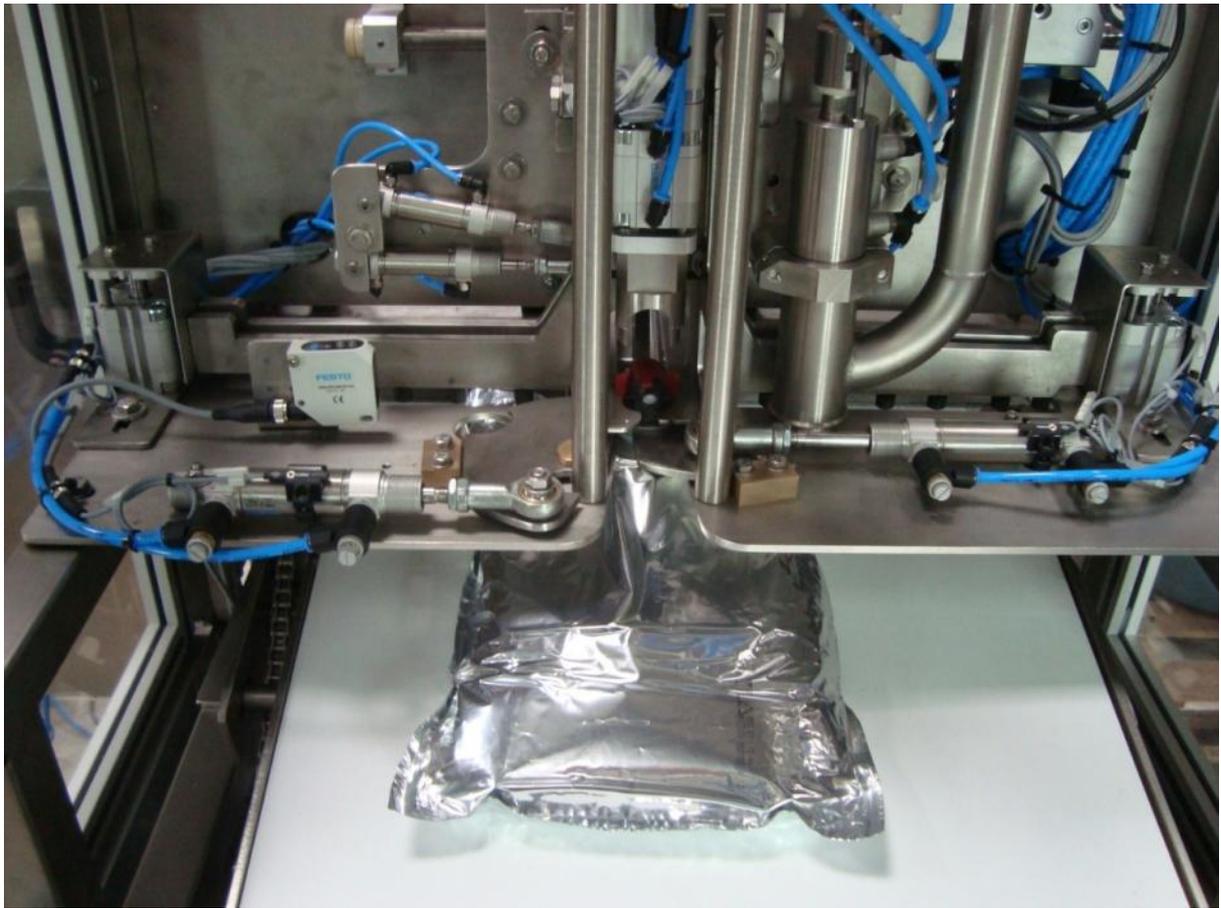


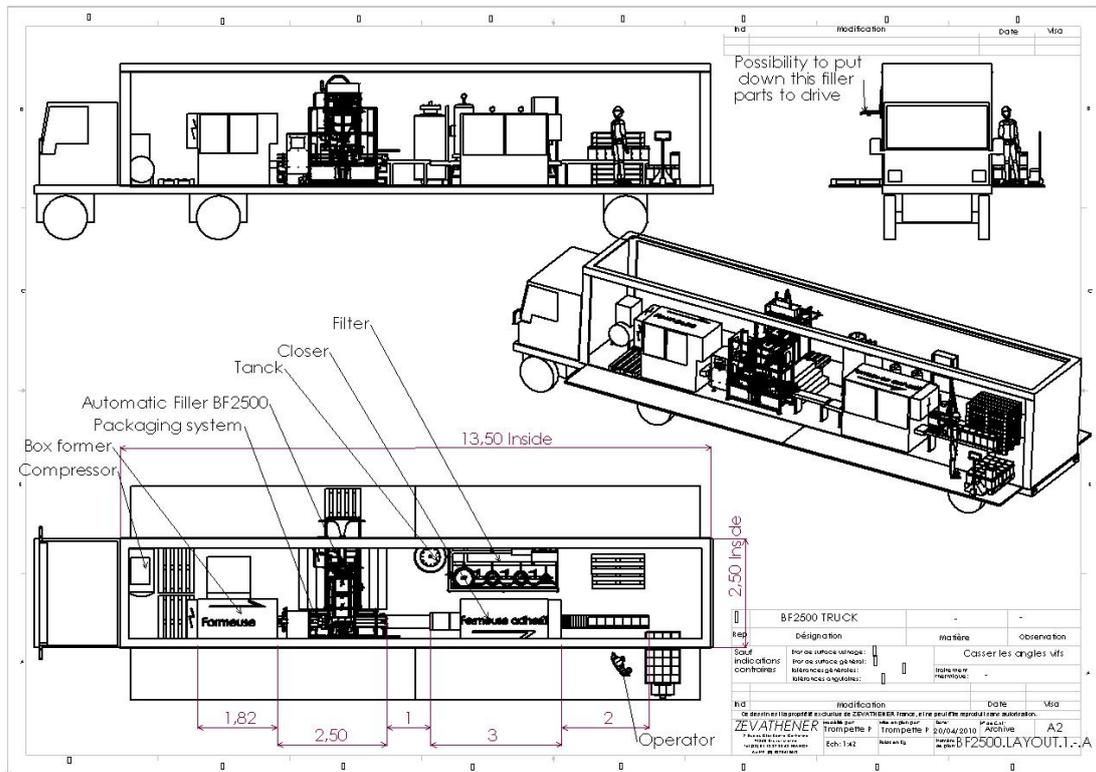
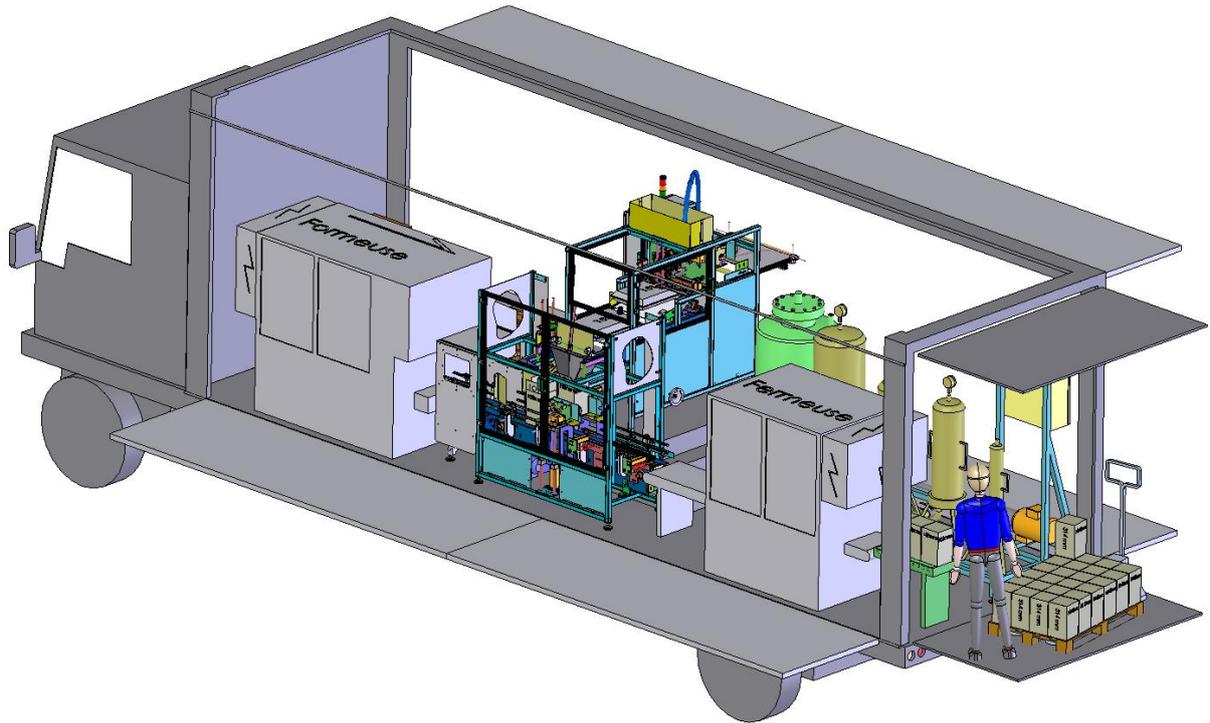
BF 2500

AUTOMATIC BAG IN BOX FILLER
From 2 to 10 litres



**Very compact filling machine with small dimensions
Machine can be integrated in a full automatic line including box erector,
automatic bag loading station and box closer.**





Zevathener

2, rue du Clos Sainte Catherine
94360 Bry Sur Marne FRANCE

Tel : + 33 (0) 1 48 82 33 68 / Fax : + 33 (0) 1 48 82 33 71
E-mail : commercial@zevathener.fr / Site web : www.zevathener.fr

AUTOMATIC LINE BF 2500

Automatic line for Bag in Box packaging from 2 to 10 liters

DESCRIPTION:

The line is made up of:

- 1 automatic filling machine BF 2500
- 1 automatic bag loader station of pouches with 1 size
- 1 box erector for gluing the bottom flaps after filling
- 1 hot melt box gluer for the gluing of the top flaps
- Various conveyors

WORKING:

The line uses web pouches which are then separated by a guillotine. The first pouch is put in a manual way in the filling machine. The web of pouches is then automatically involved to the head of filling. Bags are separated with a guillotine before filling.

The machine blocks the neck, removes the cap and the filling valve will be positioned on the neck. The vacuum is then made to avoid all problems of emulsion and oxidation. Bag and cap position are checked by a laser and filling is made for safety reason only if the cap has been opened.

Measurement is made by an electromagnetic flow meter "Endress and Hauser" which ensures the most precise measurement and most reliable (± 15 grs).

The height of the filling table is adjustable to adapt the level of the product in the pouch. The set up of the height is made by wheel.

The pouch after filling is closed.

The pouch is driven on a motorized conveyor in order to slow down the fall of the pouch and an optimum packing.

If there is no box under the loading station funnel the BF 2500 stops the bags on the conveyor. The conveyor loads the bag only after having detected a box.

For big volumes (15 or 20 litres as option), we add a variator on the loading conveyor to reduce the speed of the bag just before the fall into the box.

During this time, the case erector will form and stick the bottom of the box with hot glue.

AUTOMATIC LOADING STATION :

Boxes are separated one by one before entering the loading station

The top flaps of the box are first widely opened to prevent flaps to be damage by the funnel.

The box is blocked and lifts up with the elevator to the loading height.

The pouch slips into the funnel of the loading station and fall down smoothly into the box.

The fall of the pouches starts the descent of the elevator.

We integrate in our line a full set of sensors which controls all the process and make it safe. All our fillers can be connected by modem and checked by remote control.

The box goes down and is conveyed towards the case top sealing machine. This one squares the box and close the top flaps with hot glue.

The machine has an integrated CIP program. It is just necessary to set up a kit of cleaning and to position the machine in cycle of cleaning. The head comes to position automatically and cleaning cycle starts – possibility of evacuating the cleaning water or possibility of cleaning in loop. It is possible to do the cleaning with chemical appropriated products. The product circuit and vacuum are cleaned. Every 30 seconds, the product valve opens and closes to clean all around the gaskets.

ERECTOR AND CLOSER MACHINES

The Hot Melt box erector and the Hot Melt box closer are equipped with brushless motors who allow a quick and exact position of the boxes. The final adjustments are at last made by hand with wheels. The progress of the boxes inside the erector and the closer are not made by 2 lateral motorized conveyors. All boxes are pushed or driven from the bottom which allows a perfect squaring of the box.

GENERAL SPECIFICATIONS:

Filler BF 2500

* Energy	380 V Three-phase current + N + T
* Intensity	16 A
* Automat	Festo PLC
* Pneumatic	Festo
* Air consumption:	100 litres / minute with 6 bars
* Air Pressure:	6 constant bars
* Flow-meter	Precision 0.2 %
* Acceptable pressure :	2,5 bars maximum
* Connection:	40 Mâcon
* Materials:	stainless 304 and 316
* Rates with flow of 2,5 litres / second, with pressure of 2 constant bars, without stop between the pouches.	13 bags 3 liters / minute 10 bags 5 litres / minute 8 bags 10 litres / minute

Cases erecting machine :

* Energy	380 three-phase current + N + T
* Gluer:	Nordson
* Rates:	16 boxes 3L per minute
* Store:	approximately 200 boxes
* Materials:	stainless steel 304 + aluminium + polycarbonate.
* Motors:	Brushless

Cases top sealing machine :

* Energy	380 three-phase current + N + T
* Gluer:	Nordson
* Rates:	16 boxes 3L per minute
* Materials:	stainless steel 304 + aluminium + polycarbonate.
* Motors:	Brushless

OPTIONS AVAILABLE :

- Stainless steel platform with stairs
- Laminar flow cabine with overpressure of filtered air (2 levels of filtrations)
- Rotorflex pump (100 hl)
- Intermediate tank with control of levels
- Funnel for each size
- Tools for each size for the box closer
- Check weigher Mettler Toledo
- Ethernet card for connection and diagnostic by internet

Nota : Configuration and quotation to be confirmed in accordance to technical specifications agreed between our companies.

Machines produced in France by Zevathener with first class components : Siemens, Festo, Schneider Télémécanique, Endress & Hauser and Schräck.