


	SILO
	<h1>POSILO</h1>



*POSILO, with its pressure-less exit system (patented) is a new concept in silos carefully designed to store even the most delicate bottles without damaging or deforming them.*

**POSIMAT** 

A NEW CONCEPT IN SILOS, THE SILO WITH FLEXIBLE WALLS, MULTI-LAYERS, WITH AN OSCILLATING AND ADJUSTABLE BOTTLE DISCHARGE SYSTEM. A HIGHLY ECONOMICAL NEW SYSTEM, QUICKLY ASSEMBLED, WITH A REVOLUTIONARY CASCADING EXIT TO AVOID CRUSHING BOTTLES.

## THE POSISILO SYSTEM

POSIMAT has developed and patented a new and revolutionary system to extract the bottles from the silo: the bottom of the silos are flat, inclined steel surfaces, the inclination of which can be manually and automatically regulated. **(A + B in fig. 1)**

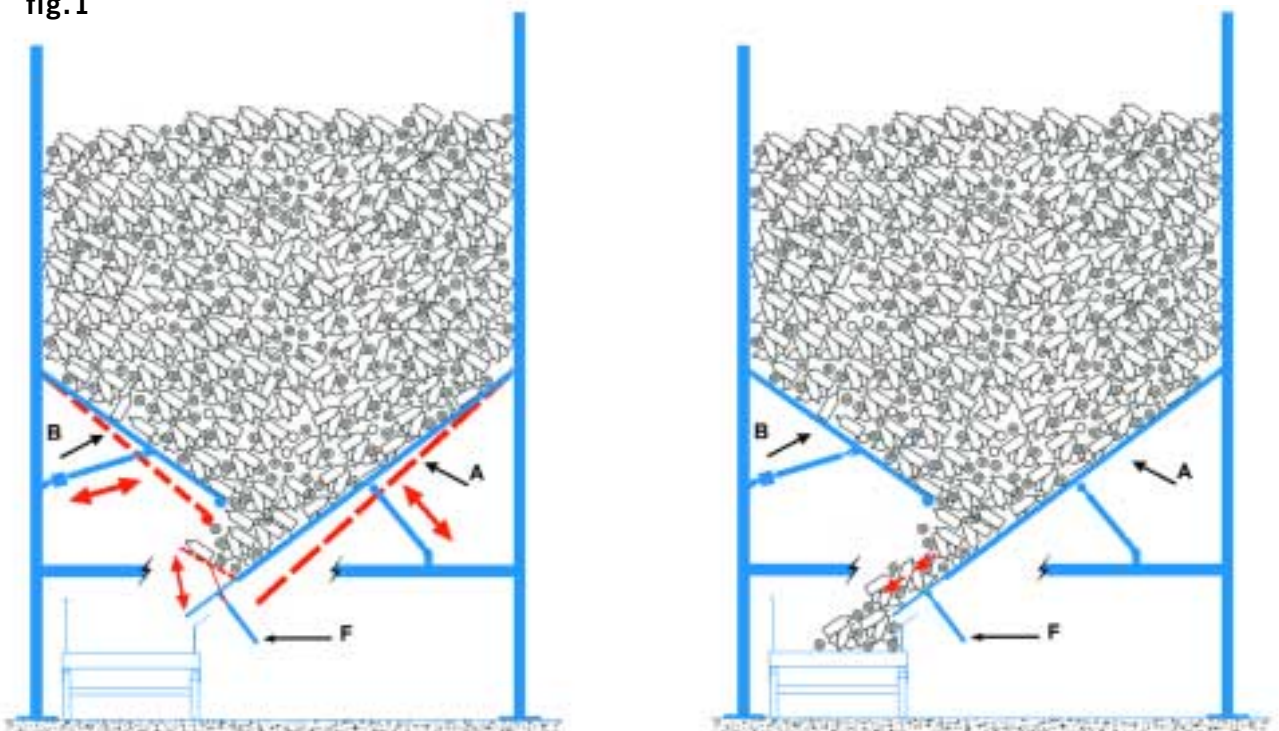
It is well known that the inclination of the walls is critical, since below a certain angle of inclination the bottles do not fall and above this inclination all the bottles fall.

POSIMAT has taken advantage of this fact: wall **(A)** from figure 1 is manually adjustable, for each bottle type. At the bottom, the wall has some flaps attached to it **(F)**. These flaps move up and down, using pneumatic cylinders, allowing the bottles to fall or

preventing them from falling, according to the demand of the filling line. The result is a system of free falling bottles that do not crush each other, like other traditional silo systems. Wall **(B)**, opposite to **(A)** is also connected to some short pneumatic cylinders that shake the bottles in the silo in a rhythmic (PLC controlled) fashion. This action prevents the formation of bottle bridges in the silo.

The POSISILO silo is made in different versions: with canvas walls (more economical and easy to assemble), in AISI 304 stainless steel (which can be hermetically sealed, pressurized, and even refrigerated by air conditioner), or inbuilt onto the unscrambler.

fig.1



# THE DIFFERENT VERSIONS OF THE POSISILO

**POSISILO AISI 304 STAINLESS STEEL**



**POSISILO Inbuilt onto a POSIMAT unscrambler**

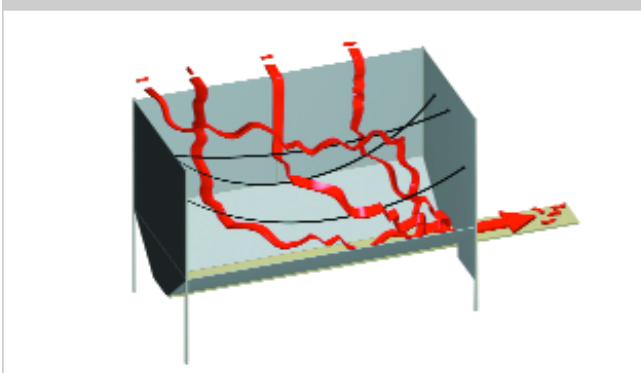


**POSISILO CANVAS**

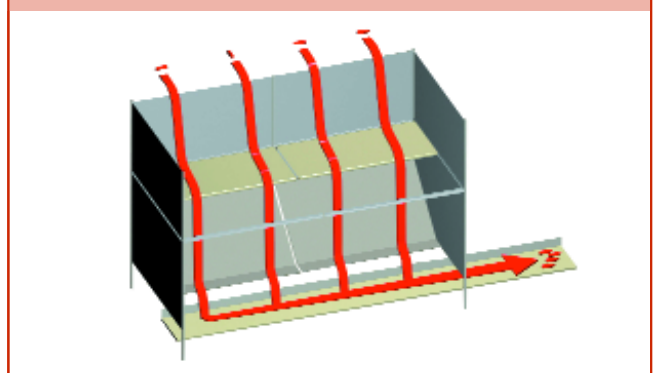


## ADVANTAGES OF THE POSISILO SILO COMPARED TO OTHER TRADITIONAL SYSTEMS:

**TRADITIONAL SYSTEMS, TURBULENT FLOW**



**POSISILO: LAMINAR FLOW**



### “TRONCOPYRAMIDAL” TRADITIONAL SYSTEM

In this system the bottles are extracted from the silo by means of vibrators or belts that put pressure on the bottles at the exit, so bottles run the risk of getting damaged.

### TRADITIONAL SYSTEM WITH LOWER LONGITUDINAL BELT

This system uses an interior belt that drags the bottles to the silo's discharge point, where they press against each other. The narrow exit of these silos incurs additional risk of bottle damage.

MOREOVER, the above mentioned systems use intermediate belts, deflectors, etc, which do not guarantee that 100% of the bottles contained in the silos are free from the pressure of the bottles above them.

World's best seller in machinery and systems for handling plastic bottles: silos, unscramblers, airveyors, conveyors, etc.



ENTRUST YOUR BOTTLES TO THE LEADER®

## A TYPICAL CASE

### SOFT DRINKS INSTALLATION

This important manufacturer of orange soft drinks entrusted POSIMAT with the task of handling their bottles, with the highest degree of delicacy and efficiency. POSIMAT supplied and installed an unscrambler, together with 5 silos and an air conveyor (POSIJET), with the patented "double-guide system" for a production rate of 36,000 bottles per hour.



*SEND SOME HUNDREDS OF YOUR MOST DELICATE BOTTLES AND WE WILL BE GLAD TO TEST THEM IN OUR SILO SYSTEM. OUR ENGINEERING DEPARTMENT IS READY TO ASSIST YOU IN THE DESIGN OF YOUR LINE FROM THE BLOW MOULDING MACHINE TO THE FILLING LINE. CONSULT US.*

**Europe / Asia: POSIMAT, S.A.** Av. Arraona, 17-23 P.O. Box 108 08210 Barberá del Vallés Barcelona (Spain)  
Sales Phone +(34) 93 729 76 16 Operator +(34) 93 729 76 10  
Fax +(34) 93 729 18 55 / 93 718 88 56 E-mail: [sales@posimat.com](mailto:sales@posimat.com)  
<http://www.posimat.com>

**Americas: POSIMAT** 10830 NW 27 Street # 1-B, Miami, FL 33172, USA  
Phone (305) 854 7422 / 1-888-Posimax Fax (305) 854 44 35  
E-mail: [miami@posimat.com](mailto:miami@posimat.com)

*Patents: Many of the components and devices described or shown in this brochure are protected by International patents either granted or pending. At the request of any interested party we would be pleased to disclose the numbers in each Country.*