

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

**POSIMAT®** 



3,000 MACHINES  
INSTALLED WORLDWIDE.

## 25 YEARS OF LEADERSHIP IN THE PRODUCTION OF UNSCRAMBLING MACHINERY FOR PLASTIC BOTTLES. 3,000 MACHINES INSTALLED WORLDWIDE.

**JAUME MARTÍ**  
Industrial Engineer  
President of POSIMAT, S.A.



*Since 1977, when I first manufactured the POSIMAT unscrambler, 25 years have elapsed of significant effort, creativity, innovation and, above all, customer service.*

*This landmark would not have been achieved had it not been for the trust and loyalty that a few initial customers placed in me and in my product, which was new at that time; a rotating unscrambling machine for plastic bottles was then a novelty in the market. Today, with a record of 3,000 machines sold, POSIMAT is a standard in the market, for its simplicity, its reliability, its low cost and maintenance and, because of the success of the human group that produces it. Sometimes imitated, yes, but never matched.*

### **3,000 MACHINES INSTALLED REPRESENT:**

**25 YEARS OF SATISFIED CUSTOMERS** due to our seriousness and honesty in contracts and delivery terms, and in our installation and after sales services.

**25 YEARS INTRODUCING PATENTS** throughout the world, to protect the technological improvements and developments that have allowed us, to provide the best unscrambling machine in the world - based on 136 patents in 30 different countries - and to develop Posijet and Posisilo.

**25 YEARS OF INTRODUCING A BROAD RANGE** of machines and accessories to satisfy different markets with different demands and different speed requirements.

**25 YEARS CREATING A GROUP OF EXPERTS** by combining the experience of the founders with the technical innovations of new generations, thus becoming the best in handling difficult bottles and the most reliable at high speeds.

**25 YEARS OF COMPLETE AND CONSTANT SERVICE TO OUR CUSTOMERS**, providing the engineering necessary to obtain the greatest efficiency on bottling lines, providing all the equipment between the fabrication of the bottle and the filling, with efficiency and unequalled after sales service.

**25 YEARS CREATING A WORLDWIDE SALES AND SERVICE NETWORK**, either through independent and exclusive agents, or through our own employees from a 6,000 m<sup>2</sup> main facility at our headquarters near Barcelona (Spain) serving Europe, Asia, Australasia and Africa, and with offices in Miami, Florida (USA) serving throughout the Americas.

After 25 YEARS as a world leader in this sector of the bottling market, and after having manufactured and sold more than 3,000 machines, I only have two words to add: **THANK YOU.**





MORE THAN  
3,000 MACHINES  
OPERATING WORLDWIDE.



WE SPECIALIZE  
IN COMPLEX BOTTLES  
AND HIGH SPEEDS.

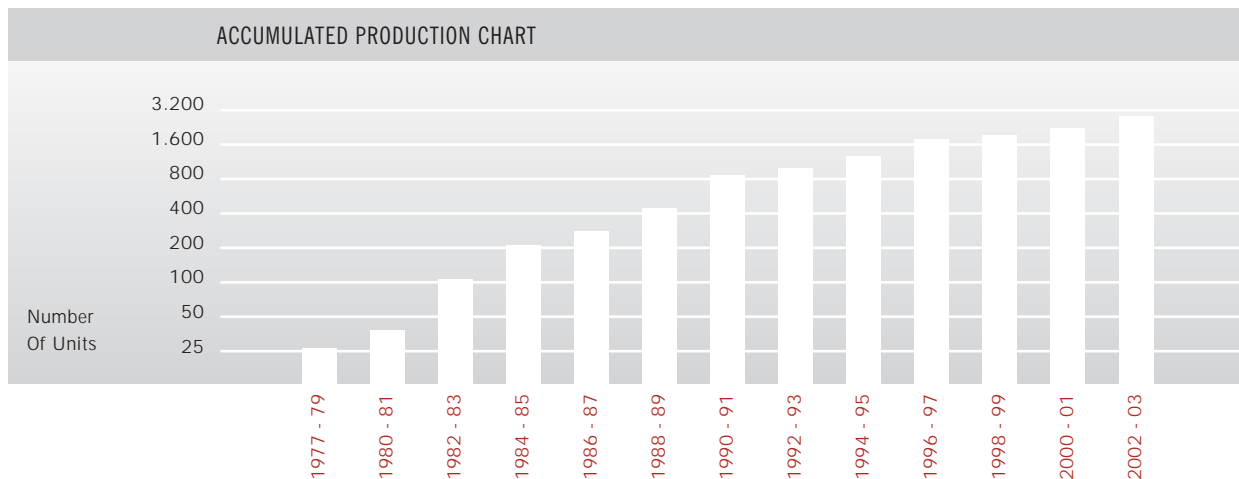


A TOTAL OF 3,000 MACHINES ALREADY SOLD, shows the results of hard work on more than 10,000 different bottle shapes. Not only does it mean handling the unscrambling of easy round bottles, but also solving the handling of hundreds of extremely difficult ones in order to satisfy marketing department demands. To handle difficult bottles POSIMAT has developed and patented systems of electronic bottle selection without a neck or with a very short neck, that nobody else has been able to unscramble before.

In addition, for the safe transportation of unstable petaloid base bottles, and/or to connect the output of two bowls on to a single discharge conveyor, POSIMAT has developed the POSITRANS bottle conveyor. For other unstable bottles, the POSIPUCK system is used, which is an unscrambler to feed bottles into pucks.

There are some bottles that only POSIMAT can unscramble and transport; this is because we are using the technology developed from the production of over 3,000 machines.

ACCUMULATED PRODUCTION CHART





NEW FACTORY OPENED ON NOVEMBER 15th, 1997

6,000 m<sup>2</sup>  
TO PROVIDE SPECIFIC  
SOLUTIONS.



OUR FACILITIES  
CAN PRODUCE  
ONE MACHINE PER  
WORKING DAY.



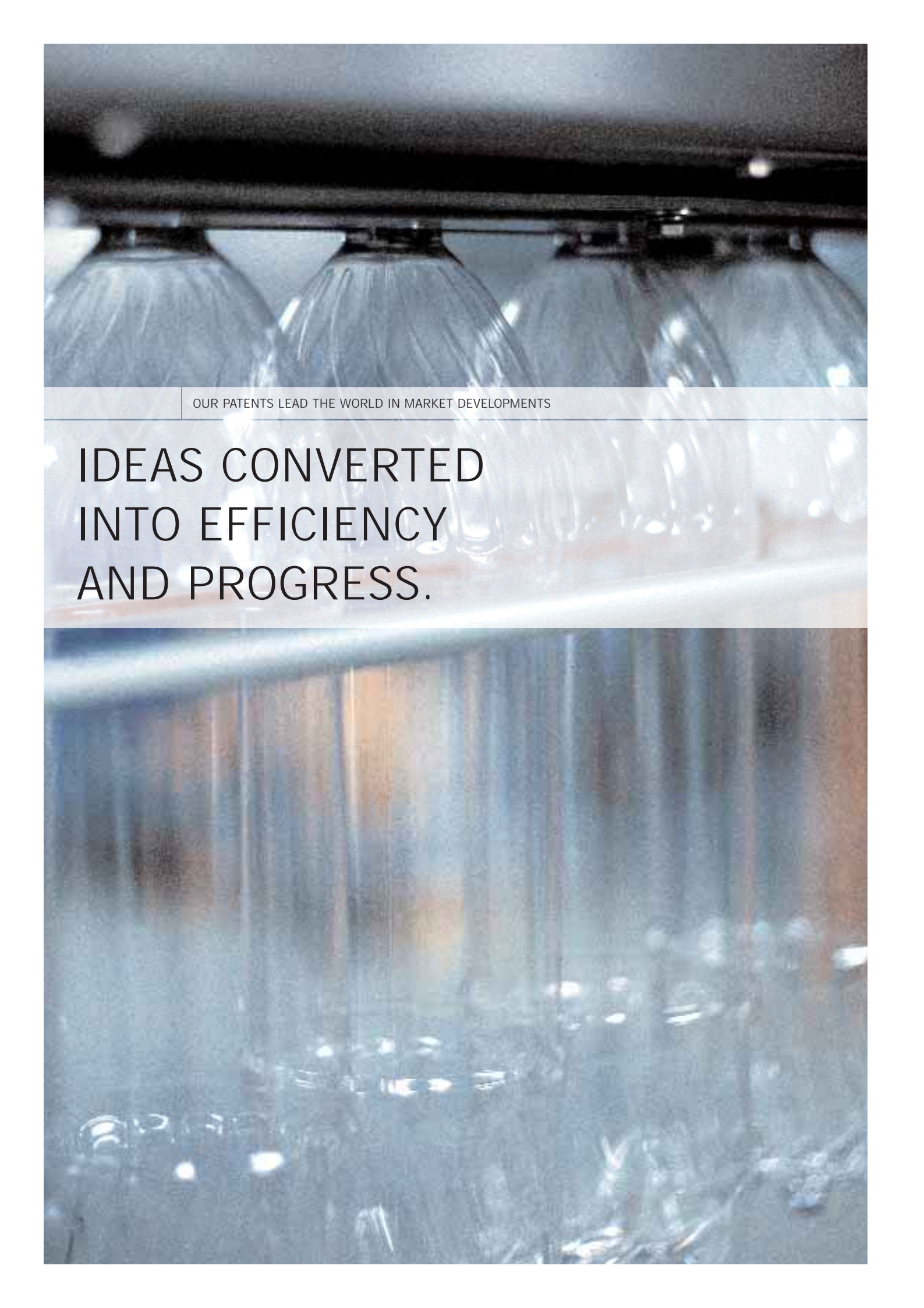
INAUGURATED IN NOVEMBER 1997, POSIMAT has a main facility of 4,500 m<sup>2</sup> built on premises of 6,000 m<sup>2</sup>, whose only purpose is to produce bottle unscrambling machines.

Due to the success in the production of other equipment such as Silos, Depalletizers, Table Top and Air Conveyor, their production has been relocated to another facility also located in the Industrial Area of Valles, near the city of Barcelona.

In this same building are located Business, Technical, Accounting, and R&D offices, with a total of more than 100 professionals and technicians working at all levels.

POSIMAT HAS THE FACILITIES  
TO SUIT ITS POSITION AS A WORLD  
LEADER IN MANUFACTURING.





OUR PATENTS LEAD THE WORLD IN MARKET DEVELOPMENTS

IDEAS CONVERTED  
INTO EFFICIENCY  
AND PROGRESS.



## 25 YEARS PATENTING UNSCRAMBLING MACHINERY.

POSIMAT HAD STARTED THE ERA OF ROTATING UNSCRAMBLING MACHINES IN 1977, but the market was increasingly using more plastic bottles, and the bottling lines were using more than one bottle at a time.

Manual systems of adjustment were being discarded due to the intensive training that operators had to undergo. Adjustments were very delicate and any minor mis-alignment could be the cause for disaster- broken bottles, line jams, etc.



**1983**

**PATENTS:** ES 521.347, DE 3413234, JP 59-071670, US 4,681,209, ETC.

FIRST HIGH SPEED CHANGE OVER.

*Posimat launched a system of simple plugging and unplugging of change parts at the unscrambling drum, to ease and speed up the change over.*

***The success of the new machine change over was spectacular doubling sales in practically one year.***



**1983**

**PATENTS:** ES 521.347, DE 3448395, JP 59-071670, US 4,681,209, ETC.

FIRST MACHINE TO EXPEL DEFECTIVE BOTTLES AUTOMATICALLY.

*Any bottle that, because of defective fabrication or incorrect handling, arrived damaged at the unscrambling machine, could get stuck at the selecting box causing a jam, and stopping the line. Posimat patented a system that is still successfully used, consisting of a sensor that detects bottles stuck in the box and ejects them via a short jet of pressurized air, which in most cases expels the bottle from the box.*

***The automatic bottle rejecter prevents jams in the line.***



**1992**

**PATENTS:** EP 0578602, JP 5-168046, US 5,415,322, ETC.

**THE LOW FRICTION SEGMENT BOX.**

*PET bottles are being widely used and Posimat develops the low friction segment to avoid scratches and damages to bottles. At the same time, the segments that unscramble the bottles stay rigid, improving the operation of the machine in the long run, as there are no possible deformations; not even with defective bottles.*

*With these new segments, the machine goes from having a fast change over to an ultra fast one.*

**Today, this system is the basis of our machine type "N" and "Master".**  
**Several thousand units have been sold.**



**1997**

**THE NEW UNSCRAMBLING MACHINE SERIES ACCESS WITH OPEN FUNNEL.**

*The market demands a more reliable machine that does not compromise line efficiencies. The bottle rejection system of defective bottles already presented in 1983 offered an improved solution, but PET bottles are getting lighter every day, and get deformed easily in the high speed conveying system feeding the unscrambling machine.*

*The ACCESS Series, has funnels inclined and open at the back so that no bottle can stay inside; even defective ones. ACCESS becomes the unscrambling machine that never stops. An outer stainless steel cabin protects the inside mechanisms from dust and dirt, preventing accidents, and reducing noise. Large windows allow continuous observation of the inside of the machine and wide doors allow easy access for cleaning.*

**The ACCESS Series is the ideal machine for PET bottles in the water and soft drink beverage industries. More than 600 machines have already been sold in the last five years.**



**1995**

**PATENTS:** EP 0711717, JP 8-217223, US 5,769,203, ETC.

**THE DUAL DRUM "BI" MACHINE TO HANDLE LARGE PRODUCTION SPEEDS AND THE POSITRANS CONVEYOR.**

*The market requires a high speed unscrambling machine with simplicity and low cost. The solution patented by POSIMAT consists of a dual drum machine with a conveyor that alternately picks up one bottle from each drum and delivers them one after the other at the discharge. This is the POSITRANS conveyor.*

*At the same time this conveyor has a system of cups that provide great stability to bottles having a "petaloid" base. In systems with automatic change over format, POSITRANS FLEX is installed. This consists of flexible blades that move to form holding pockets that adapt automatically and instantaneously to the diameter of the bottles to run.*

**The POSIMAT ACCESS BI machine consists of two drums with one infeed and one discharge. Therefore, IT IS ONLY ONE MACHINE, with the output of TWO machines. It is considered a small, easy to ship, and easy to install unscrambler. More than 100 machines have been sold in the last 5 years.**



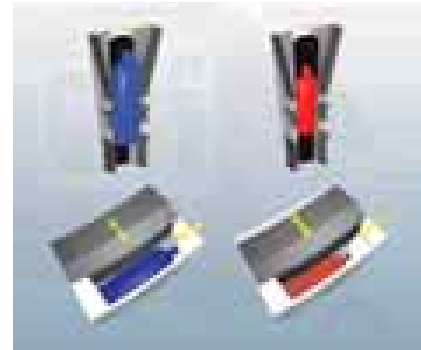
1998

PATENTS: EP 1016601, US 6,494,646, ETC.

**POSIFLEX** FOR AUTOMATIC AND INSTANTANEOUS CHANGE OVER FORMAT FOR ANY BOTTLE.

*There is an ever greater variety of bottle shapes, shorter lines of production and faster speeds. Lines now work 24 hours a day and the time used to change over formats is wasted.*

*Posimat offers an unscrambling machine that has elements adjustable to every bottle size, automatically and instantaneously. Every bottle size is registered in the PLC, so that by pressing a button the machine adjusts itself automatically. Future sizes can be easily programmed in the memory for future bottles.*



**POSIFLEX is the easy change over for difficult bottles without the need of qualified personnel.**

1999

PATENT PENDING: # WO 01/40084

**POSI-SWITCH** FOR EASY CHANGE OVER OF CYLINDRICAL BOTTLES, SIMPLER THAN POSIFLEX.

*Cylindrical bottle sizes typically range from 2.0 litres to 33 cl, or 16 oz.*

*Posimat has invented a simplified and inexpensive system to work with a reduced number of bottle sizes. The components of the unscrambling segments move outward and inward by means of pneumatic cylinders to form different cavities and adjust to the different bottle formats.*

*The movement is memorized in the PLC and is done instantaneously by simply choosing the right size in the selector switch or electronic screen.*



**POSI-SWITCH, the fast change over for cylindrical bottles without the need for qualified personnel.**

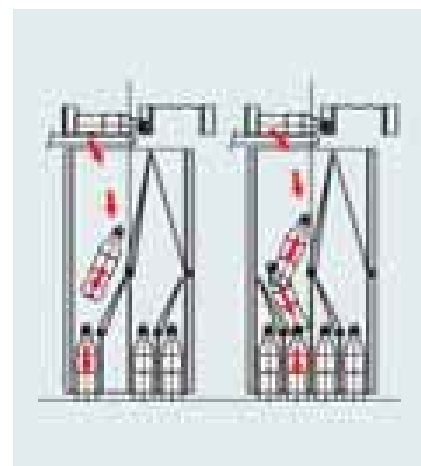
2002

PATENT PENDING: # PCT/ES 02/00467

THE **MULTICHUTE** UNSCRAMBLER FOR HIGH SPEED AND AUTOMATIC CHANGE OVER.

*The market keeps demanding machines that work at higher speeds; machines that occupy less space as they must be included in lines already installed; machines that can rapidly change for handling many different bottle sizes. Posimat's solution is the MULTICHUTE Unscrambler, a machine of the well known horizontal POSIMASTER series that allows 2, 3, or 4 drops per round, and the possibility of choosing 2 or 4 drops in the same machine, thus providing double and quadruple production speeds over regular single drop unscramblers. It provides automatic and instantaneous change over, a combination of Posiflex and Posi-switch.*

*It has an discharge wheel that stays mounted at all times, thus eliminating the need to raise or lower the air conveyor infeed, as it is the discharge wheel that moves up and down to adjust for bottle height.*



**The future of high speed unscrambling and automatic change over machines has arrived!**



25 YEARS PATENTING  
 ADDITIONAL MACHINERY  
 FOR EMPTY BOTTLE  
 HANDLING.

**1990**

**PATENT:** ES 9003263

**DEPEMAT** IS LAUNCHED; THE FIRST DEPALLEZIZER DESIGNED TO DELIVER PLASTIC BOTTLES TO THE UNSCRAMBLER (WITHOUT "INLINER").



**DEPEMAT, the inexpensive depalletizer for plastic bottles.**

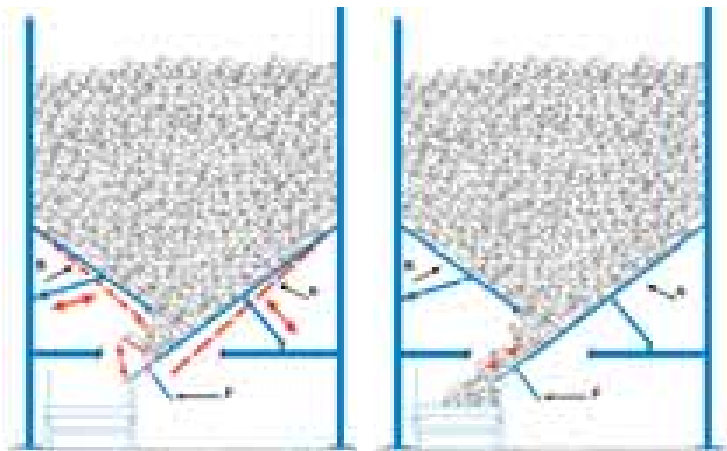
*Up to 1990, glass bottle depalletizers were being used to depalletize plastic bottles. Posimat then created a high-level sweep-off depalletizer with automatic layer removal, designed to sweep bulk bottles directly into an unscrambler. This provided an*

*inexpensive and maintenance free system to easily handle pallets and efficiently deliver bottles to the line.*

1999

PATENTS: EP 1106534, US 6,457,610 AND OTHER COUNTRIES

**POSISILO**, THE FIRST SILO, SPECIFICALLY DESIGNED FOR ULTRA LIGHT PET BOTTLES, WITH FREE FALL DISCHARGE.



**POSISILO**, the final solution to accumulate PET and other light bottles.

Historically, silos were used to store grains, caps, etc. That is, silos had a storing technology designed for products that do not suffer any deformations under pressure; a new design was needed to handle plastic bottles.

First came the conical silos with vibrators at the discharge. However they deformed bottles obstructing the discharge. Then other silos were used where bulk empty bottles lay on a conveyor that led them to the discharge. However, regardless of the variations attempted, (vibrations, backward and forward movements, etc.), the problem was not solved and the bottles kept jamming.

Then POSIMAT invented a silo where bottles lay on two articulated bottoms walls, more inclined than normal. Then a pneumatic discharge gate at the end releases the bottles, allowing free fall to a belt conveyor, controlled by the PLC. It works as a withholding valve allowing the bottles to fall independently without crushing, damage, or scuffing.

1997

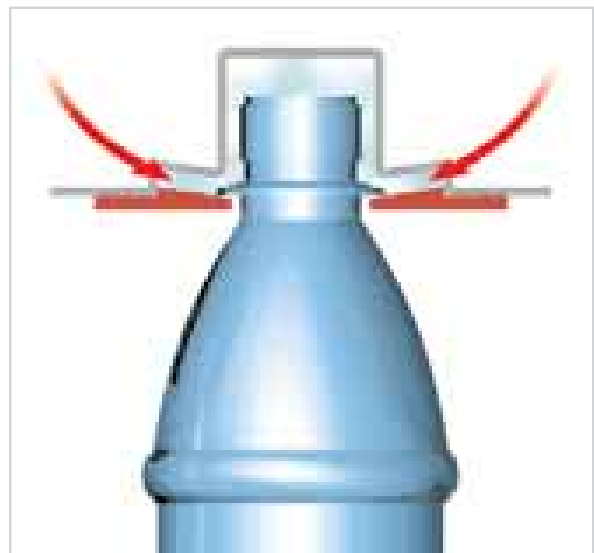
PATENTS: EP 0790200, US 6,033,156 AND OTHER COUNTRIES

**POSIJET**, THE ONLY AIR CONVEYOR BLOWING IN-BETWEEN DOUBLE GUIDES, GETS PATENTED.

Empty PET bottles are conveyed by the neck-support ring. But, if bottles have a long and narrow neck they typically tend to pivot and jam the entire production line. The double guided POSIJET prevents bottle pivoting.

This system allows blowing between the guides right on the bottle ring, then the kinetic energy transforms into pressure against the bottle resulting in an efficient and smooth conveying.

**POSIJET** is the optimum and efficient solution to convey PET empty bottles, even those with very long necks that other systems cannot convey efficiently.



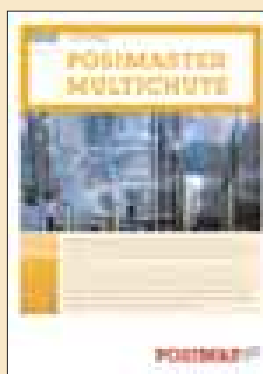
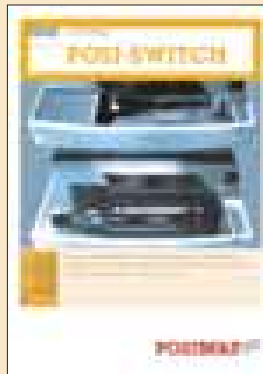
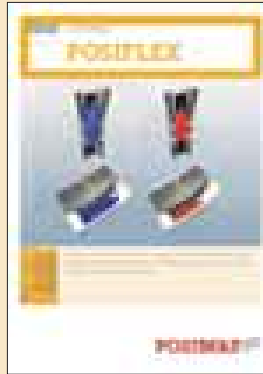
# POSIMAT RANGE

## UNSCRAMBLERS

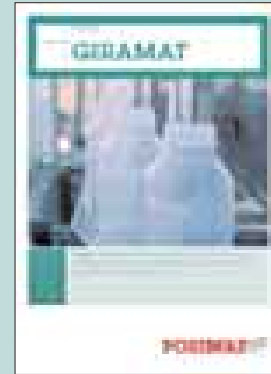
### TRADITIONAL SYSTEM



### ACCESS



## ORIENTORS



### ROTARY ORIENTORS

For very high speeds, or for the orientation of cylindrical bottles or those with square bases.

### LINEAR ORIENTORS

#### GIRAMAT-B

Up to aprox. 200 bpm.

#### GIRAMAT-D

With servo-motor for more than 200 bpm.

#### GIRAMAT VISION

Using artificial vision, with a camera, to read features not detectable with other systems (photocells, barcode readers, etc.) for high and low speeds.

#### GIRAMAT-E

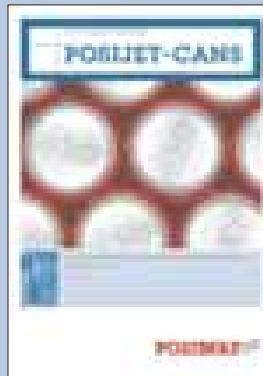
Integrated in the unscrambler, while versions **B**, **D** and **Vision** are separate units with their own conveyor.

SILOS

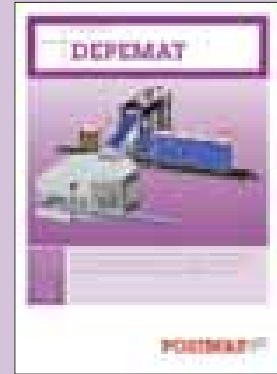


**POSILO CANVAS**  
**POSILO STAINLESS STEEL**  
**POSILO+ORIENTOR**

CONVEYORS

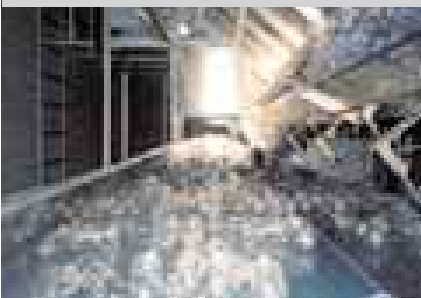


DEPALLETIZERS



MISCELLANEOUS

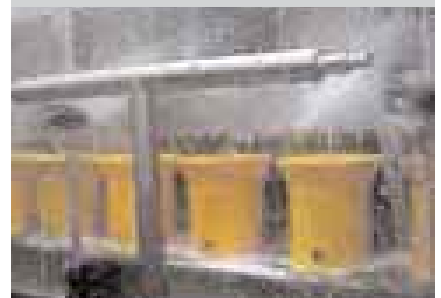
BULK CONVEYORS



UNSCRAMBLERS FEEDING PUCKS



ASEPTIC SYSTEMS







NEW SOLUTIONS EVERY DAY  
FOR THE SPECIFIC NEEDS OF  
EACH CUSTOMER.





## 25 YEARS OF ENGINEERING SERVING THE PLASTIC BOTTLE INDUSTRY.

POSIMAT CARRIES OUT turnkey projects from the bottle blowing stage to its delivery to the bottling line, or from the receipt of bottles in the factory, received either on pallets or in boxes, to the filling stage.

Also, whatever filling speed is required and whatever the industry, we offer the optimum solution based, on our handling of all applications, large and small. Posimat is particularly experienced in this, as we have been designing different size solutions for over 25 years!

We can advise on the correct size of the bottle blow moulder and so prevent unnecessary or oversized investments, as well as avoiding any potential areas that could cause stoppages, bottle jams, etc.- that could affect the bottling line efficiency, and consequently the sales and profitability.


We can advise on the best transport system for your bottles, and so give your line the efficiency it requires.

We can advise how to save the stoppages between the depalletizer and the single liner.

We can advise on the most suitable sizing of storage silos, to give the most economical solution and the best profitability, to meet your needs.



OUR ENGINEERING  
CAN CUT DOWN  
THE REAL COST OF  
YOUR PLASTIC BOTTLES.



INSTALLATIONS ALL OVER THE WORLD OPERATING AT MAXIMUM EFFICIENCY

POSIMAT, TURNKEY SOLUTIONS  
THAT MAKE YOUR BOTTLING LINE  
MORE EFFICIENT.





## TURNKEY SOLUTIONS

POSIMAT DESIGNS, MANUFACTURES, and starts-up complete bottling installations to convey, store and unscramble empty plastic bottles, from the bottle manufacture (on site or from the arrival point), to the infeed of the filling line.

TO REACH THAT GOAL, POSIMAT MANUFACTURES:

**Unscrambling machines with manual or automatic change over,** for all types of bottles and production speed. Posimat uses its own patented unscramblers, best known for their simplicity of operation, cost effectiveness and ease of maintenance. See unscrambling machine brochures.

**Silos for the storage** of empty plastic bottles with an exclusive and patented discharge system; the best in the market for lightweight bottles. See POSISILO brochure.

**Unique Air Conveyors** with double guide at each side of the bottle neck-support ring, limiting the oscillation and pivoting of the bottle during transportation. See POSIJET brochure.

**Bulk Depalletizers, manual or automatic,** specifically designed for sweeping bulk bottles into our unscrambler or silos. Fast, efficient, and cost effective, saving plant precious space. See DEPEMAT brochure.

WE ALWAYS EXCEED  
OUR CUSTOMERS  
EXPECTATIONS.



A HUMAN WORK FORCE THAT  
HAS MANUFACTURED  
3,000 MACHINES IN 25 YEARS.







*(From Left to Right) POSIMAT founder, Mr. Jaume Martí with his son Aleix and daughter Elisabet, all graduates from Universidad Politècnica de Barcelona as engineers. At present, all three are in charge of the future of Posimat, as President, General Manager, and After Sales Manager respectively.*



POSIMAT, A HAPPY WORK FORCE

## 25 YEARS CREATING A WORK FORCE, A SALES NETWORK, AND AN AFTER SALES SERVICE WORLD WIDE.

No company can succeed without a well prepared and willing personnel, happy to be part of a successful project, and confident of its future because they are aware of the world-leading products they are selling.

POSIMAT is proud to have such a group, made up of people with many years of experience and young people with the latest technology. They are the ones who travel around the world when necessary, to sell a machine, to install it, and to train how to use it and cover problem solving to fully meet customers expectations.

Posimat has a world wide sales network with offices in Barcelona (Spain), Miami (USA), Belgium, Italy, and Russia. It also has mutual exclusive agreements with companies like Krones in the UK or other companies in Korea, Israel, Argentina, Brazil, and Japan. Additionally, Posimat has an extensive network of associated agents covering sales and after-sales services.

In the USA, we have a commercial office and a showroom near Miami (Florida) where machine demonstrations take place. At this facility, bottles can be shown being unscrambled for the benefit of potential customers and a tour of the facilities and back up service is given.



MIAMI, AMERICAN POSIMAT, S.A.

## POSIMAT: A WORLDWIDE NETWORK FOR SALES AND AFTER SALES SERVICE.



POSIMAT HAS A SALES NETWORK SUITABLE TO A COMPANY THAT HAS SUPPLIED MORE THAN 3,000 MACHINES IN 25 YEARS THROUGHOUT THE ENTIRE WORLD.

Posimat is the company that has sold more unscrambling machinery than any other in the history of the bottling industry. Having sold more than 3,000 machines also means installing them and successfully offering the required after-sales service.

To offer this service successfully at a world wide level, Posimat has an extensive service network backed by our headquarters in Barcelona. This network consists of local technicians in most countries to offer immediate service in the local languages.

This local service is coordinated by two main centers: One in **Barcelona** (Spain), to coordinate service for Europe, Asia, Australasia and Africa, and served by the same technicians that manufacture the machines.

Another center in **Miami** (Florida, USA) to coordinate service in North, Central and South America, with twelve American citizens most of them bilingual, and with a stock of parts to take care of the most urgent demands.

Both centers have dependable qualified technical teams, ready to travel to every corner of the world to carry out complete installations of silos, air conveyors, etc.



**POSIMAT** 



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