

ORIENTOR

# GIRAMAT



***GIRAMAT** is a machine designed to reorient bottles coming out of an unscrambler, if one of the faces needs to be specifically shown, as bottles leave the unscrambler randomly oriented. The differentiating element can be asymmetry, a handle, or simply a text or colour, etc.*

**POSIMAT**® 

# GIRAMAT

**POSIMAT** 

THE GIRAMAT BOTTLE ORIENTATOR IS DESIGNED TO ORIENT ASYMMETRICAL BOTTLES. BOTTLES ARE DETECTED USING A SYSTEM OF PHOTOCELLS, CONTACT SENSORS, FIBEROPTICS, MACHINE VISION, BAR CODE READER... ETC, WHICH DETERMINE HOW THE BOTTLE ENTERS THE GIRAMAT. THE GIRAMAT WILL THEN ROTATE THE BOTTLE TO THE REQUIRED POSITION TO ENSURE IT IS DELIVERED IN THE CORRECT ORIENTATION.

## ADVANTAGES OF GIRAMAT

1

### BOTTLE STABILITY

The elements that constitute the bottle orientator are mounted over a conveyor belt which contains a vacuum system that creates a suction to guarantee the stability of the bottle while it is conveyed and turned.

2

### SPEED ADJUSTMENTS

The Giramat is equipped with a frequency inverter, which adjusts the speed of the Giramat's conveyor belt to the speed of the unscrambler, thus achieving a secure transfer.

3

### RETENTION AND SEPARATION OF THE BOTTLES

Prior to detection and turn, a especially designed pneumatic retainer operates to retain and separate the bottles without damaging their surface.

4

### DETECTION AND TURN

The next step is detection. A sensing mechanism sends a signal that starts a pneumatic piston in the Giramat-B, or a servomotor in the Giramat D, which in turn starts the blades that turn the bottle. These blades are made of stainless steel and due to their design do not scuff or damage the bottles.

ROTARY ORIENTOR



LINEAR ORIENTOR



# TYPES OF 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 approx 200 bpm.

### GIRAMAT-D

With servomotor for more than 200 bpm.

### GIRAMAT VISION

Using machine vision, with a camera, to read asymmetries not detectable with other systems (photocells, barcode readers, etc.) For high and low speeds.

### GIRAMAT-E

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

The sensor and turning mechanisms of the Giramat in this case are mounted over the exit conveyor belt of the Posimat unscrambler, thus constituting an integrated version of the orientor within the body of the Access unscrambler (the Master unscramblers can also be adapted).

They are adequate for reduced spaces. The Giramat-E exists in the **B**, **D**, and **Vision** versions, which in their standard concept are separate units with their own exit conveyor belt.



Silo Posisilo, Posimat unscrambler and Giramat orientor



Giramat Vision Orientor

*THE GIRAMAT ORIENTOR IS A SIMPLE MACHINE, COMPLETELY RELIABLE, AND AT VERY COMPETITIVE PRICES, AS PROVEN BY THE HUNDREDS OF POSIMAT ORIENTORS WHICH ARE NOW OPERATING IN THE MARKETPLACE.*

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



ENTRUST YOUR BOTTLES TO THE LEADER®

## THE HANDLING OF A GIRAMAT ORIENTOR

AS IN ALL POSIMAT MACHINES, THE HANDLING OF THE GIRAMAT ORIENTORS IS SIMPLE:

**Format change** is limited to changing the turning blades and the guides, and to adjusting the rails of the conveyor belt. As the sensor coordinates for each format are factory regulated, you only need to turn a selector to a predetermined position for the bottle to be oriented, and the Giramat will work with appropriate sensors in each case.

**Minimum maintenance:** regular checks that the photocells are clean and the system is maintained dust free to avoid dirtying the bottles. Annual checks to ensure that the belt of the servomotor (Giramat-D) and the belt of the conveyor are correctly tensed.

**The electrical installation** of the Giramat is also very simple: requiring only connection to the supply, as all the motor guards, photocell controls, timers, etc. are installed in the electrical cabinet attached to the machine.



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