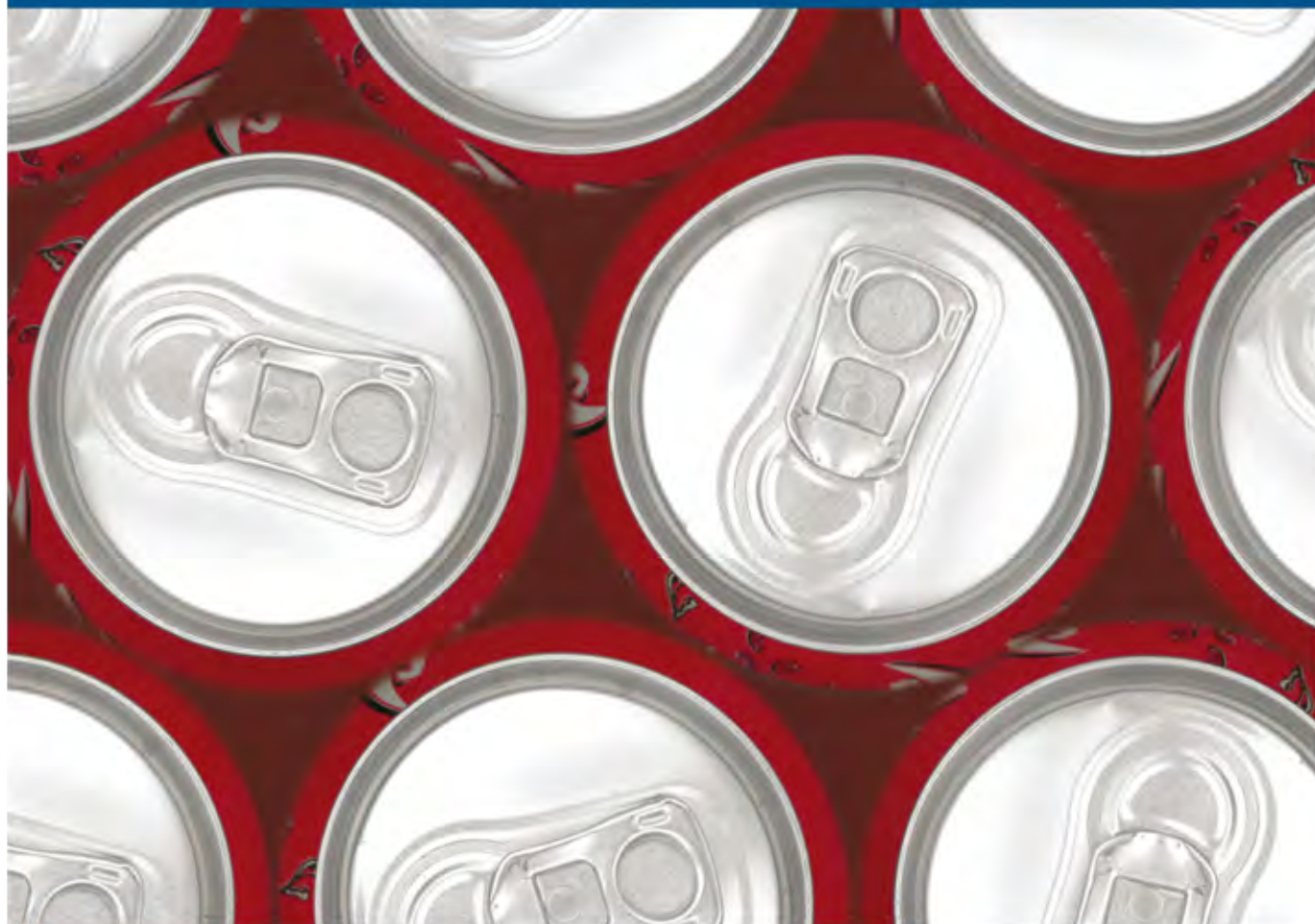


EMPTY CANS AIR CONVEYOR

# POSIJET-CANS



**POSIJET-CANS** SINGULATOR is an air conveyor for empty cans, that singulates them smoothly into a single line at very high filler line speeds.

**POSIMAT** 

# POSIJET-CANS



TRADITIONAL SYSTEMS OF HIGH SPEED CANS HANDLING MAY PRODUCE LOSS OF TRACTION BETWEEN THE PRODUCT AND CONVEYORS LEADING TO GAPS, DAMAGED CANS AND LINE STOPPAGES.

THE POSIJET-CANS SINGULATOR PREVENTS THIS BY THE USE OF SPECIFICALLY ARRANGED CAN GUIDES, PREVENTION OF CAN MOVEMENT IN EXHAUST AIR BY PERFORATED COVERS, AND MINIMISATION OF GAP FORMATION BY THE SINGULATOR'S FAST CATCH-UP FEATURE. THIS NOT ONLY PROVIDES VERY HIGH VOLUME OF CANFLOW BUT ALSO SINGULATES CANS SMOOTHLY INTO A SINGLE LINE AT VERY HIGH FILLER LINE SPEEDS. CANS PASS OVER A ESPECIALLY DESIGNED CONFIGURATION OF PATTERNS ON THE LOUVRE PLATE AND ARE PROPELLED BY HIGH VOLUME LOW PRESSURE AMBIENT AIR. THE AIR VELOCITY IS PROVIDED BY ONE OR MORE CENTRIFUGAL FANS CONTROLLED ELECTRICALLY THROUGH VFD'S AND PLC TO PRODUCE THE SPECIFIC VELOCITY AND PRESSURE REQUIRED AT EACH SECTION OF THE SYSTEM.

## FLEXIBILITY

This flexibility of the Posijet-Cans Singulator can be utilised in the empty can line at both Pre- and Post-Rinse stages.

**PRE-RINSE;** as a buffer, singulator or twin feed to one or more rinsers.

**POST-RINSE;** as a combiner/singulator feeding one or more fillers.

The Posijet-Cans Singulator has the ability to divide the can supply into two simultaneous outfeeds to utilise one depalletiser feeding two rinsers/fillers and having the added advantage of saving on cost also.

Multi-can size systems require only minimal adjustment, which can even be done automatically along with the operating pressures all preset in the PLC programmes, according to size or whether the cans are of Steel, Aluminium or Pet.

### THE ADVANTAGES OF THE POSIJET-CANS SINGULATOR ARE:

- IT REMOVES VIRTUALLY ALL THE PROBLEMS INHERENT IN TRADITIONAL CAN HANDLING SYSTEMS.
- UNIQUE FLEXIBILITY / VERY HIGH LINE SPEEDS.
- SMOOTH TRANSPORTATION OF CANS IN MASS AND SINGLE FILE.
- CAN PROTECTION AND VERY MINIMAL DAMAGE.

### POSIJET-CANS SPECIFICATIONS

<b>UNIT FLOW RATE:</b>	Up to 4,000 cans per minute.
<b>EFFICIENCY:</b>	Individual Singulator 99.0% / Twin Singulator 99.5%
<b>CAN SIZES</b>	0.21 to 0.51
<b>CAN MATERIAL:</b>	Steel – Aluminium – Pet
<b>DRY SIDE:</b>	Buffer minimum length 10 m / With Single / Twin Singulator of 5.4 m
<b>WET SIDE:</b>	Buffer / Singulator minimum length 8m

# VACUUM TRANSFER UNIT (VTU)

The Vacuum Transfer Unit (VTU) is used in an Empty Can system to prevent fallen and badly damaged cans entering the Posijet-Cans Singulator, which could lead to interrupted lineflow to the Rinser, Filler or Seamer.

The VTU consists of infeed and outfeed conveyors separated by a drop-out zone and an overhead conveyor belt. All these are linked electrically so they operate at precisely the same speed to provide smooth transfer of the cans. The speed is approximately 12% faster than the Depalletiser feed system, allowing the VTU to create spacing between the cans, so fallen or damaged ones the vacuum will not hold and are rejected into the drop-out zone. If the down stream equipment stops, the vacuum is maintained on the VTU ensuring cans do not fall and enabling instantaneous re-start of the system. Height

adjustment and variable vacuum pressure settings are provided for optimum operation of the VTU according to the diameter, material and size of can. Designed around raised rib modular belt, the VTU infeed and outfeed conveyors can be easily integrated into an existing Empty Can feed system.

Can flow along can feed system and the VTU is maintained at a constant speed by pre-selected programmes in the PLC and adjust automatically on demand of the Posijet-Cans Singulator and Filler such that a constant flow of cans is maintained throughout the system from the Depalletiser to the Filler.

*Note: All Singulators must be protected against fallen cans by a Vacuum Transfer Unit (VTU).*



<b>VTU SPECIFICATIONS</b>	<b>CAPACITY:</b>	Up to 4,000 cans per minute.
	<b>CAN SIZE:</b>	0.2l to 0.5l
	<b>CAN MATERIAL:</b>	Steel – Aluminium – Pet
	<b>CONVEYOR SPEEDS:</b>	PLC controlled variable 12% above depalletiser / feed system
<b>VTU DIMENSIONS</b>	<b>INFEED CONVEYOR:</b>	2.0m x 600 – 1000mm wide
	<b>OUTFEED CONVEYOR:</b>	2.0m x 600 – 1000mm wide.
	<b>DROP-OUT ZONE:</b>	600mm
	<b>VACUUM CONVEYOR:</b>	2.0m x 600 – 1000mm wide
	<b>CONVEYOR DRIVES:</b>	0.5kw geared motor
	<b>VACUUM FAN:</b>	4.0kw direct drive

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



ENTRUST YOUR BOTTLES TO THE LEADER®



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