Performance through Understanding

Sidel

FLEXIBLE AND ACCUMULATION-FREE COLLATING INFEED SYSTEM

Cermex RoboSELEX®

Unlimited shaped lightweighted bottle design, unlimited batch configuration

PERSONAL CARE FOOD

In today's market, differentiation through innovative container design is essential, while regulations limiting plastic use are driving lighter packaging solutions.

These trends create challenges in conveying and handling uniquely shaped bottles, which must remain stable and undamaged during processing.

Production cycles are also becoming shorter, with a growing number of formats and SKUs, as well as diversified case counts ranging from small to large batches.

As a result, manufacturers are prioritizing fast, repeatable, and easy changeovers.

The new Cermex RoboSELEX has been engineered to feed lightweight, shaped bottles into any type of case packer.

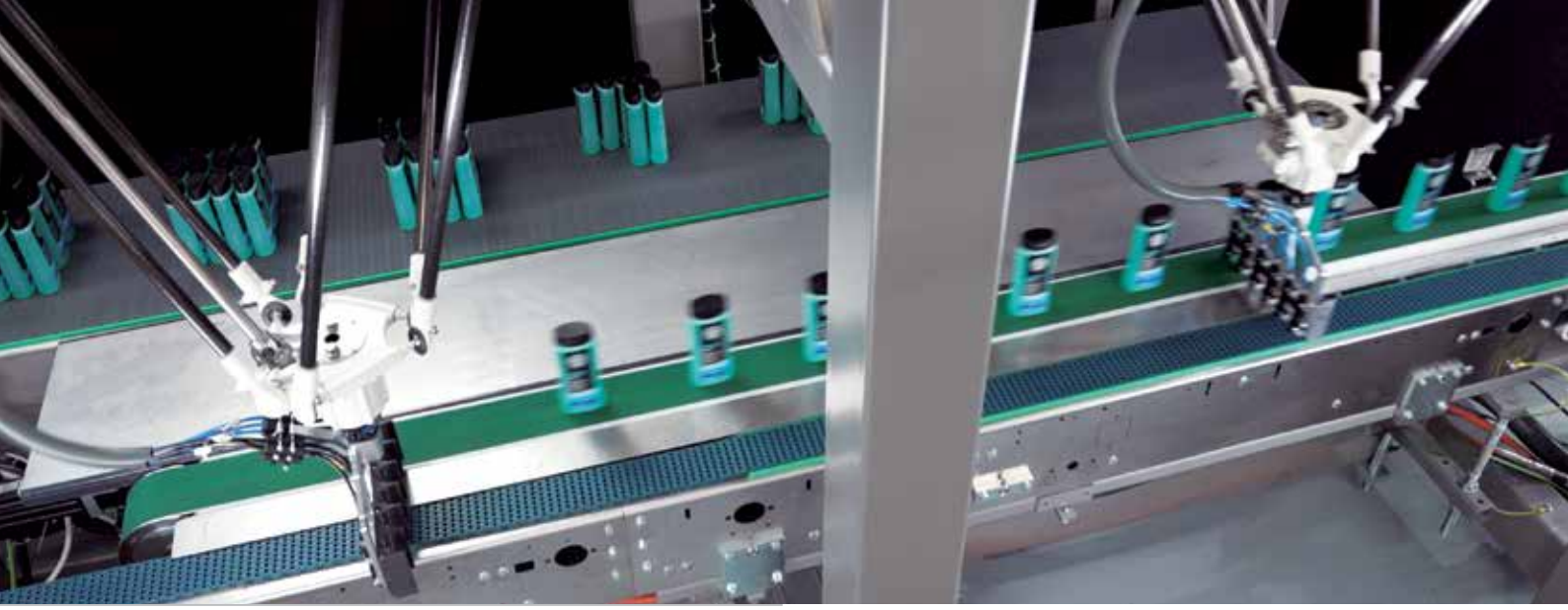
Combining exceptional efficiency, high availability, and enhanced ease of operation, it delivers precise and optimized bottle grouping.

SPEECHLESS PERFORMANCES

- Speed from 80 to 320 bottles/min
- Fast and repeatable changeovers for vertical start-ups delivering ever-shorter production stops:
  - Same bottle, different collation: 1min
  - Different bottle: 2min30
- Case counts from small (3x1 products) to large (8x6 products), depending on product size

PRODUCT CARE

- Continuous motion system without accumulation to avoid product jamming and shingling
- Product spacing & pitching simply done the speed variation of the upstream conveyors
- Robotic concept with 2 Delta robots ensuring smooth, fast, and precise comb positioning and repositioning
- Continuous interaction and adaptation of the system to the upstream product flow conditions
- Affordable 3D-printed gripping tooling to eliminate shocks and scratches
- Shaped comb buckets to suit different product designs, sizes and collations



EQUIPMENT EFFICIENCY

Operator centric approach for fast ownership

- Separate sturdy frame attached firmly to the machine:
  - Minimum vibrations so less risk of product instability
  - Designed to withstand heavy product/batch inertias
- Robust and modular automation, fully compliant with OMAC and Pack ML standards

Cost efficiency:

- Cost of adding new bottle formats (shapes & sizes) reduced thanks to low number of change parts needed
- Less storage space required for change parts compared to screw infeed (tooling drawer storage inside the system in option)
- Batch orientation done at the source, no need for an intermediary rotating table before packing
- System even offering the possibility to eliminate the puck's usage when dealing with conveyable non-accumulable shaped bottles
- Batch control by 2D vision system with AI-powered photo analysis

EQUIPMENT OPERABILITY

Simple and user-friendly:

- Simple manual (or motorized in option) adjustments of the upstream guides
- Robots coming to an ergonomic position for the changeover of the 2 vacuum comb gripping heads
- Great operator and maintenance resources embedded in centralized packer HMI

Simple and user-friendly:

- Robotic arm hung from the frame top part (TPM designed), leaving a full ground access to the heart of the system
- Hygienic design in case of product leakage, for a facilitated machine cleaning