



# GEA CONVEYOR SYSTEMS

Handling systems for primary and secondary packages.

# CONVEYOR SYSTEMS FOR PRIMARY AND SECONDARY PACKAGES.

Conveyor systems for primary and secondary packages are primarily used to interconnect single machines that are part of a production line. GEA designs and manufactures conveyor systems that – instead of simply transferring packages from one machine to another – use an “intelligent automation” approach to optimise the operation of those machines and to guarantee the efficiency of the whole line. Specific installation requirements and peculiar package features determine on a “case by case” basis the technical execution of the conveyor systems to transfer each package in the best way. The installation of a technology laboratory at GEA premises allows a preliminary testing of “difficult” containers to determine the most adequate technical solution for their handling.

GEA range of products includes air conveyors for PET bottles, conveyors for different containers (PET bottles, glass bottles, jars, cans) and a wide range of handling solutions for shrink-wraps, cartons, cases of widely different dimensions and sturdiness.

## **Bottles, jars and can conveyors**

- Stainless steel complete execution.
- Tailored made pressed stainless steel or injection mould plastic components.
- Customised layouts for any kind of container (round and shaped) and production speed.
- Wide range of solutions that include pressureless aligners, multi-lane conveyors, dynamic accumulation tables.
- Dividers for shaped containers from 1 to multiple lanes.
- Tilting conveyors for hot fill bottles.
- Pad elevators/lowerators.

## **Shrink-wraps and trays conveyors**

- Broad-sides in s/s AISI 403; in s/s AISI 304 as option.
- Optimised transfer solutions for “difficult” shrink-wraps.
- Fitted with slat chains with/without rollers, modular mesh type belt, modular rubber type belt.

## **Cartons and crate conveyors**

- Broad-sides in s/s AISI 430 for cartons and s/s AISI 304 for wet crates.
- Fitted with rollers with/without friction, rollers with tangential belt for low pressure and low noise, slat chains in plastic or in s/s, modular rubber type belt.
- Curves with conical rollers, driven or idle.

## **Available accessories**

- Wide range of dividers / combiners.
- Lateral guides adjustment with quick references, with hand-wheels or even fully automatic.
- Elevators/Lowerators with rubber belts.
- Swinging systems for vertical exchange between lines.
- Curves with rubber band and with modular type belt.



Connecting single machines to create an 'intelligent' packaging system, the conveyors can handle a wide variety of containers and packages and offer features to improve performance and flexibility.

Available accessories.

A wide range of accessories is available to easily meet specific installation requirements which determine the technical execution of the conveyor systems, allowing the optimal transfer of each bottle.



**Container handling equipment**

GEA conveyors system streamline handling operations for containers of all shapes and materials (PET/HDPE bottles, glass bottles, jars, cans).



**Handling systems for secondary packages.**

GEA conveyors work any type of pack (shrink-wraps, carton boxes, crates, trays) customizing layout and production speed.



**Dynamic accumulation table.**

A wide range of technical solutions, including accumulation tables, can be adopted to handle specific requirements of package or installation.

## State-of-the-art automation.

Specialised in automation systems for high speed conveying lines of containers and packages, GEA believes in the continuous development of line automation: an information network that transforms a group of machines into a high efficiency plant. The automation systems feature:

- Speed modulation using inverters (installed in the remote power board or near-field) to reduce consumption and noise.
- Dedicated electronics to synchronise master and slave machines at high speed with reduced installations spaces.
- Remote field PLC devices are used to optimise installations with a high concentration of inputs and outputs.
- Centralised plants with graphical operator's interface:
  - control over multiple lines;
  - product code selection for complete traceability;
  - alarm visualisation;
  - programmed maintenance (option);
  - in-line operator's and maintenance manuals.



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