GEA Conveyor systems

Handling systems for primary and secondary packages
Primary and secondary packaging conveyors

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.

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 cans 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.

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.

GEA conveyor system can be used for any primary packaging.
GEA is one of the largest technology suppliers for food processing and a wide range of other industries. The global group specializes in machinery, plants, as well as process technology and components. GEA provides sustainable solutions for sophisticated production processes in diverse end-user markets and offers a comprehensive service portfolio.

The company is listed on the German MDAX (G1A, WKN 660 200), the STOXX® Europe 600 Index and selected MSCI Global Sustainability Indexes.

GEA Italy
GEA Procomac S.p.A.
Via Fedolfi 29
43038 Sala Baganza (Parma) Italy
Tel +39 0521 839411
Fax +39 0521 833879
gea.com
gea.com/contact