

GEA CONVAIR

Empty PET bottle air conveying system



CONVEYOR SYSTEM FOR EMPTY PET BOTTLES

Convair air conveyors reduce power consumption, bottle jams, are easy to clean and can be managed to provide optimum performance for a wide range of applications.

Offering high-efficiency conveyor with a high level of contamination control over the containers on their way from the blowing to the filling unit, Convair air conveyors are available in three different models:

Standard version

- Plastic blowing station with dust filter
- Open frame: closed frame for bottle path available as optional
- Filter efficiency: 85%

Proclean version

- Plastic blowing station with HEPA absolute filter placed after the dust filter
- Standard open frame (closed frame for bottle path available as optional)
- Filter efficiency: 95%

Aseptic version

- Blowing station in stainless steel, with dust pre-filter, first HEPA filter (95 DOP) and second HEPA filter (99.99 DOP) placed after fan
- Closed frame with Plexiglas cover for bottle path
- Filter efficiency: 99,99%

Air cushion effect

The blowing slots are integrated in a plastic structure mounted directly above the bottle neck guides. Thus the air jetting can be very precisely directed to the bottle neck ring area. Air jetting in this area creates an air cushion which greatly reduces friction. As a consequence, the Convair features an improved power efficiency of more than 30%: less blowing stations are needed (one for up to 14 meters) and bottle jams are greatly reduced.

Air cushion design with greater bottle sliding ability and low

Convair air conveyor in aseptic configuration



Closely spaced inspection windows



Fully automated bottle changeover (option)





friction bottle guides design give Convair the capability to handle any kind of bottles including tapered neck bottles.

CIP (Cleaning In Place)

Closely spaced inspection windows to manually clean the blowing chamber are a standard feature. A fully automated CIP system with high pressure nozzles for the internal blowing chamber is available as optional for aseptic applications.

Simple installation and changeover

The minimized number of blowing stations required by Convair air conveyors, together with the wide range of combining/dividing systems available, allow to easily solve any installation issue. A quick neck guide change ("clip-on guides") is a standard for maintenance purposes, the quick change system from 28 mm neck to 38 mm is available as an option.

State-of-the-art automation

The GEA air conveyors installations are managed by customized operating logic to obtain an intelligent air flow modulation featuring:

- use of frequency converters on all motors;
- possibility to set up to 3 different speeds for each bottle format (nominal speed, fast recovery speed, accumulation);
- selection of the correct speed for each working situation directly by the PLC without any intervention by operators.

Configuration flexibility.

Specific installation requirements determine the technical execution of the conveyor systems to transfer each bottle in the best way. The wide range of combining/dividing systems available, allows to easily solve any installation issue.

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