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Ярославль (4852)69-52-93

Россия +7(495)268-04-70

Казахстан +7(7172)727-132

Киргизия +996(312)96-26-47

<https://gea.nt-rt.ru/> || gsg@nt-rt.ru

СИСТЕМЫ УПАКОВКИ И РАЗЛИВА DBF

Технические характеристики



Introducing the GEA Decontamination Blow Fill System

With DBF, GEA has made the advantages of preform sterilization and integrated blow-fill technology available to those customers who distribute high acid beverages such as juices and isotonic, ensuring food safety at best in class TCO.

Preform sterilization

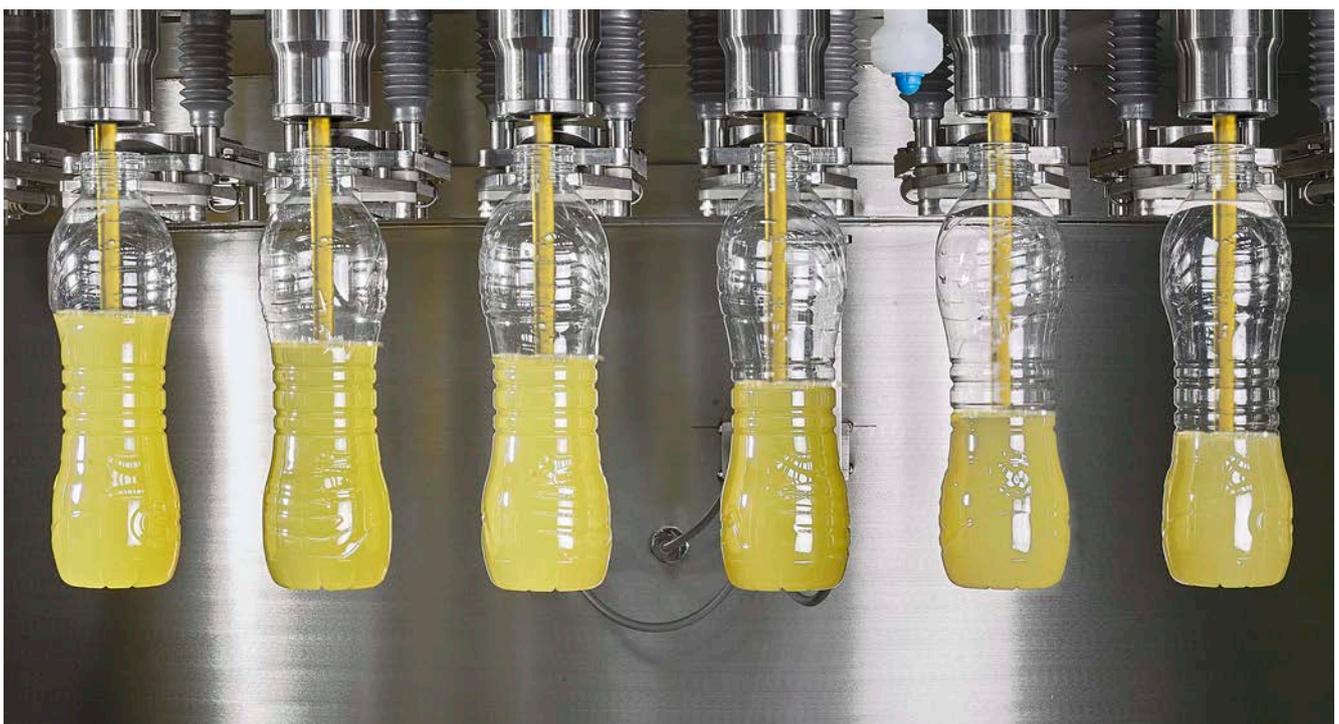
Both high acid (pH of under 4.5) and low acid (pH over 4.5) sensitive beverages can be adversely affected by light or oxygen or can be highly susceptible to biological spoilage. Depending on the product treatment and container decontamination, they can be distributed at ambient temperature or through the cold chain.

With the DBF system the preform is treated with VHP (Vapor Hydrogen Peroxide) in a single process immediately after it leaves the oven, and then blown with sterile air before passing on to the aseptic filler and aseptic capper for an efficient and robust sensitive product bottling.

Filling flexibility

Since the blower module is not part of the aseptic process, the changeover operation is quick and simple. The system offers extreme SKUs variability as it allows to switch from large volume to single serve container or to adopt different neck finish dimensions in short times. This allows customers to meet today market's requirements for format and shape wide flexibility.

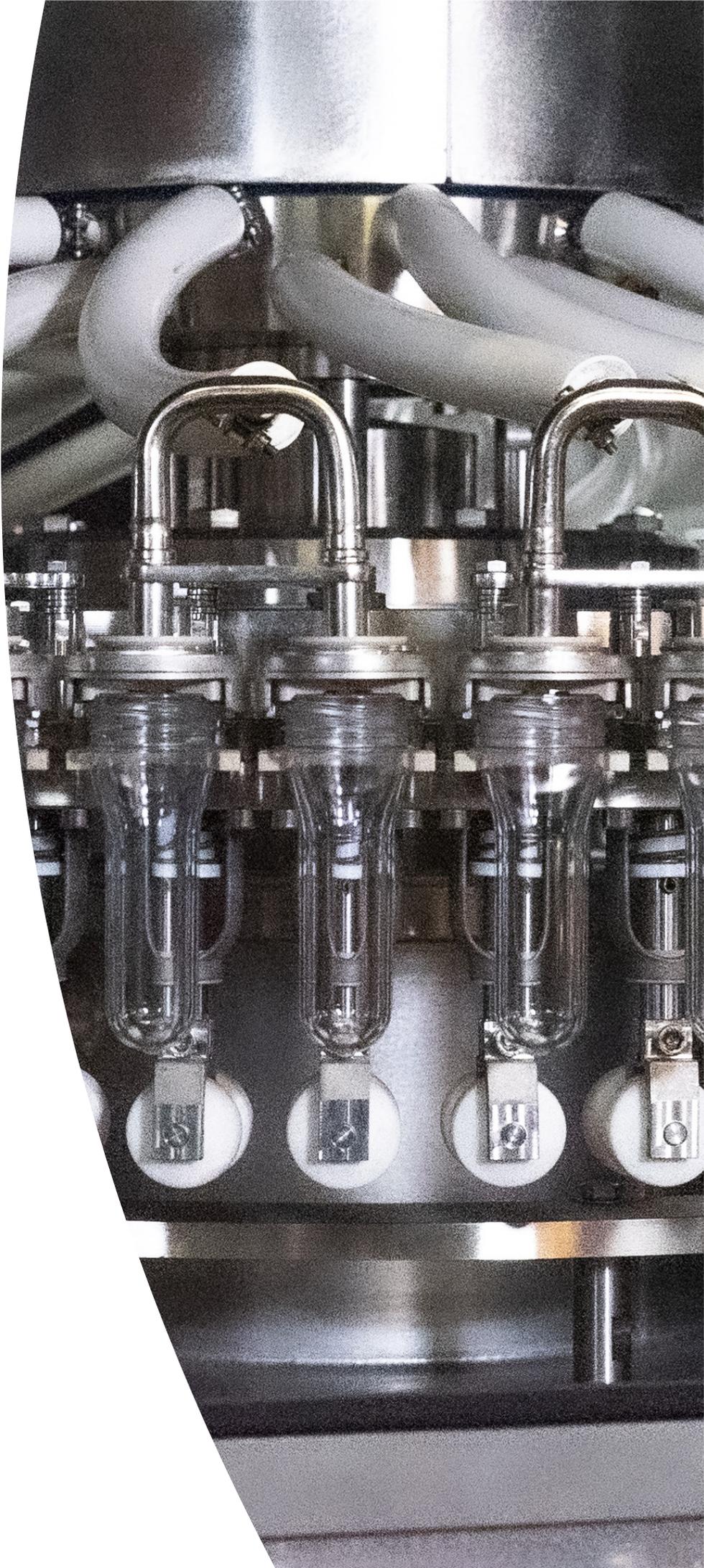
In addition, the complete system allows to fill a large variety of sensitive liquid products including still or carbonates, clear or viscous beverages, and those with pulp, fibers and pieces of fruit or cereals with dimensions up to 10x10x10 mm.



Closure sterilization and aseptic capping

The GEA DBF is ready to handle both sport and flat cap design. The closure sterilization module uses a VHP-based technology and offer quick changeover without loss of sterility.

The capper module is specifically designed for aseptic applications and is completely embedded in the microbiological isolator. GEA provides a patented electrical barrier that effectively separates the sterile zone from mechanical components that require lubrication, a hygienic design with no bellows that's easy to clean, and full traceability of the capping process to achieve maximum product safety.



Benefits for your production

- Sustainable solution: completely dry preform sterilization platform – no water consumption during production.
- Machine complexity and footprint reduction: no preform tilting in the oven module is needed.
- Preform thermal profile optimization: oven dual ventilation system provides independent and dedicated air flows for cooling preform neck and preform body.
- Gentle handling: preform are transferred through

cam-controlled grippers to avoid stress to the neck of the bottle even at high-speed production (over 2,500 bottles/minute).

- Blowing flexibility: wide high-pressure blowing angle allows the high-speed production of complex shape bottles.
- Reduced energy costs: a air recovery system is fitted as standard to recover a portion of the air from the high-pressure circuit thereby.
- SKUs flexibility: quick format changeover

compared with similar decontamination systems.

- Easy monitoring of sterilization effectiveness: single point internal and external preform sterilisation performed with a single media minimizes the critical control points.
- Maximum food safety: the unique Smart Sensor solution checks that every preform is effectively sterilised.



The GEA DBF offers reduced format changeover compared with similar decontamination systems.

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