

KRONES Contiform AseptBloc

Winner products are sterile from start to finish



The safest route for your product

KRONES Contiform AseptBloc

Impatience is usually a bad adviser, so a German saying tells us. But in this case it pays. The Contiform AseptBloc produces containers under sterile conditions ready for aseptic filling. But unlike other lines, it sterilises the PET containers long before they were made. How is it done? With a simple but effective trick: Rather than wait to sterilise the finished bottles, the Contiform AseptBloc gets to work already on their preforms. Directly after the preforms are heated, they are sent into the sterile zone for treatment with gaseous hydrogen peroxide (H_2O_2). But what's really clever is: Preforms are more even and smaller than bottles. Which means that they need far less time, energy and sterilisation medium for their treatment. From here the journey continues just as germ-free as it began. The stretch blow moulding, filling and capping are all performed in a hermetically sealed sterile zone without any grey zones or hygiene leaks, making sure that your products are well accommodated.



Functions

- Sterile stretch blow moulding
- Sterile filling
- Sterile capping

Processing range

Products:

- Milk mix drinks
- UHT milk
- Juice
- Ice tea
- Tea
- Energy drinks
- Beverages containing particles

PET containers:

- Cylindrical and square
- Up to 2.35 litres
- Standard and lightweight

Caps:

- Sports caps
- Flat caps

Characteristics

- Hermetic separation between sterile and non-sterile zones
- Completely dry process
- Cleanrooms without cables, sensors, drives and lubricating points
- Easy-to-clean, less extensive surfaces in the cleanrooms
- Safe sterilisation of the cleanrooms with gaseous H_2O_2
- Ventilation by means of a central system with HEPA filters
- Central distribution system for H_2O_2 and process air
- Automatic calculation of the number of caps and preforms required on the basis of the product quantity
- Short stoppage times thanks to parallel cleaning of the product route and cleanroom

*Safety on each step
along the route:
sterile stretch blow
moulding, ...*



filling ...



and capping.

A sterile chain: From the preform to the finished product

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Cap sterilisation system

- Sterilises the caps with gaseous H_2O_2
- Shortens the treatment time through sterilisation at high temperature
- Coordinates the number of treated caps precisely with the product quantity
- Ejects faulty caps automatically

Filler with capper

- Ensures microbiological safety through contactless filling
- Creates perfect hygiene conditions with automatic SIP caps
- Determines the product amount exactly by flow sensors or load cells

Aseptic blowing module

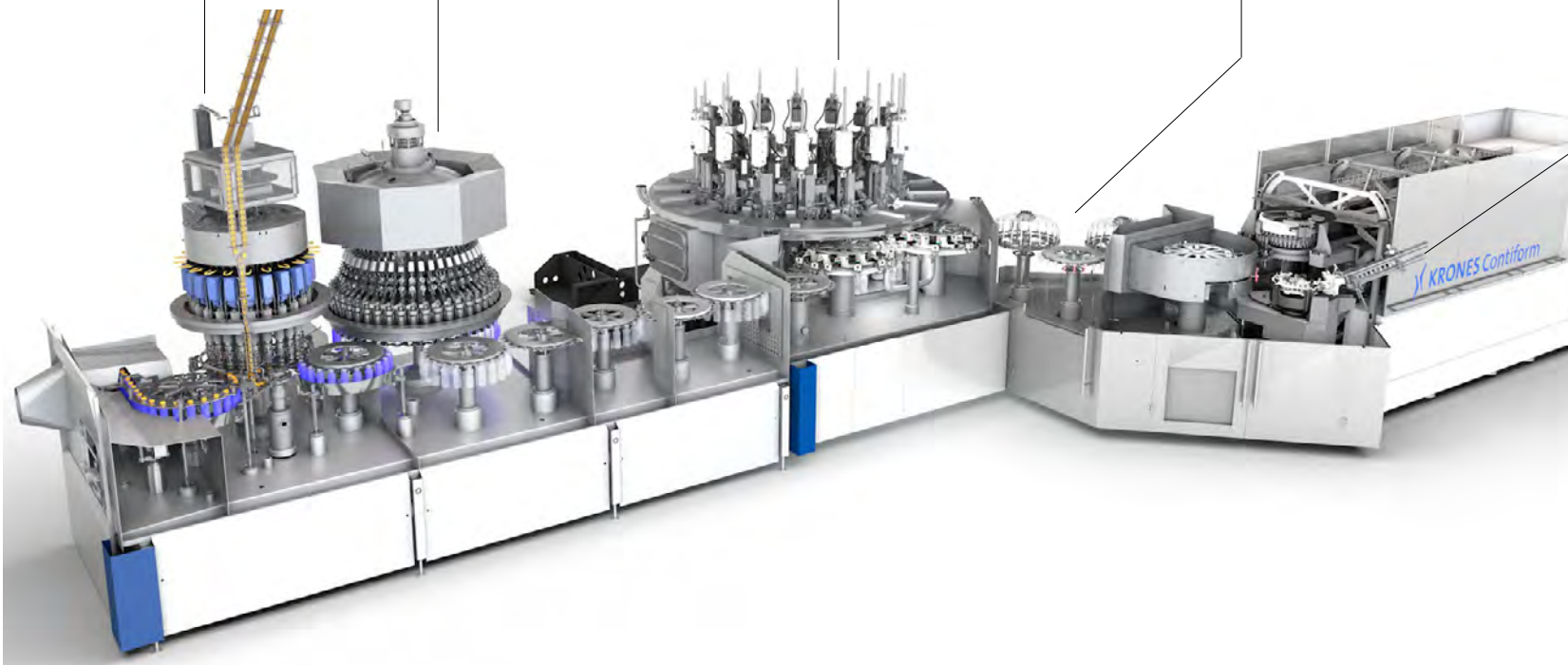
- Produces PET bottles in sterile moulds
- Uses clean room housings to ensure the sterility of the stretching rod
- Can be converted within a short time thanks to quick-change moulds

Preform sterilisation system

- Treats the preforms with gaseous H_2O_2
- Sterilises the preforms simultaneously on the inside, on the outside and at the neck finish
- Achieves short process times thanks to gaseous medium
- Coordinates the number of treated preforms precisely with the product quantity

Preform feed unit

- Ejects faulty preforms automatically
- Inspects the neck finish geometry by camera
- Removes dust and dirt particles from the preforms by blowing
- Has a Clean Design cover for the hopper and feed rail



Sterilising bottles? No need!

Instead of sterilising the bottles, the Contiform AseptBloc performs the sterilisation even before the blowing process takes place. This route is not only unusual but also extremely effective. Fact is: preforms are more even than bottles and smaller by a multiple. For the system this means less work – and for you lower costs.

■ Seamless sterile process chain

The Contiform AseptBloc looks after sensitive products from start to finish: As soon as the preforms leave the oven they enter a hermetically sealed sterile zone – and leave it again as finish-blown, aseptically filled and capped bottles.

■ Rugged system

The Contiform AseptBloc achieves high output rates with a simple basic layout: It does without any additional peripheral equipment such as a hygiene centre or sterile water UHT system, and uses a single controller for all the aseptic processes. This makes the system easy to service and immune to malfunctions.

■ No water consumption

During production, the entire system consumes not a single drop of liquid. This lowers the overall water consumption while simultaneously raising the level of microbiological safety – in strict compliance with the principle “No water, no life”.

■ Environment-friendly medium

For sterilisation purposes the Contiform AseptBloc uses only gaseous hydrogen peroxide – a natural compound which disintegrates into water and oxygen without further residues.

■ Minimum consumption of medium

The Contiform AseptBloc does not sterilise finish-blown bottles but their PET preforms. And because the preforms are much smaller and more evenly shaped, they can be cleaned more easily and with a far lower input of medium than in comparable systems.

■ Material savings through lightweighting

Unlike with bottles, the sterilising of preforms causes no shrinkage. This means that even extremely lightweight PET containers can be processed without difficulty on the Contiform AseptBloc.

■ Gentler and faster

Using a gaseous sterilising medium in small quantities results in very short process times – with no harmful condensation and minimum residue values.

■ Production to the exact number of bottles

The Contiform AseptBloc calculates exactly the number of PET containers and caps still required. This ensures that it sterilises only as many preforms and caps as it actually processes.

In the sterilisation module the preforms are sterilised simultaneously on the inside, on the outside and at the neck finish.



We do more.

The logo for KONPLAN, featuring a stylized blue 'K' icon followed by the word 'KONPLAN' in blue capital letters.The logo for SYSKRON, featuring a stylized blue 'K' icon followed by the word 'SYSKRON' in blue capital letters.The logo for KIC KRONES, featuring a stylized blue 'K' icon followed by the words 'KIC KRONES' in blue capital letters.The logo for KOSME, featuring a stylized orange 'K' icon followed by the word 'KOSME' in orange capital letters.The logo for HST KRONES GROUP, featuring a stylized blue 'K' icon followed by the word 'HST' in blue capital letters, with 'KRONES GROUP' in smaller blue capital letters below it.The logo for EVOGUARD, featuring a stylized blue 'K' icon followed by the word 'EVOGUARD' in blue capital letters.

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