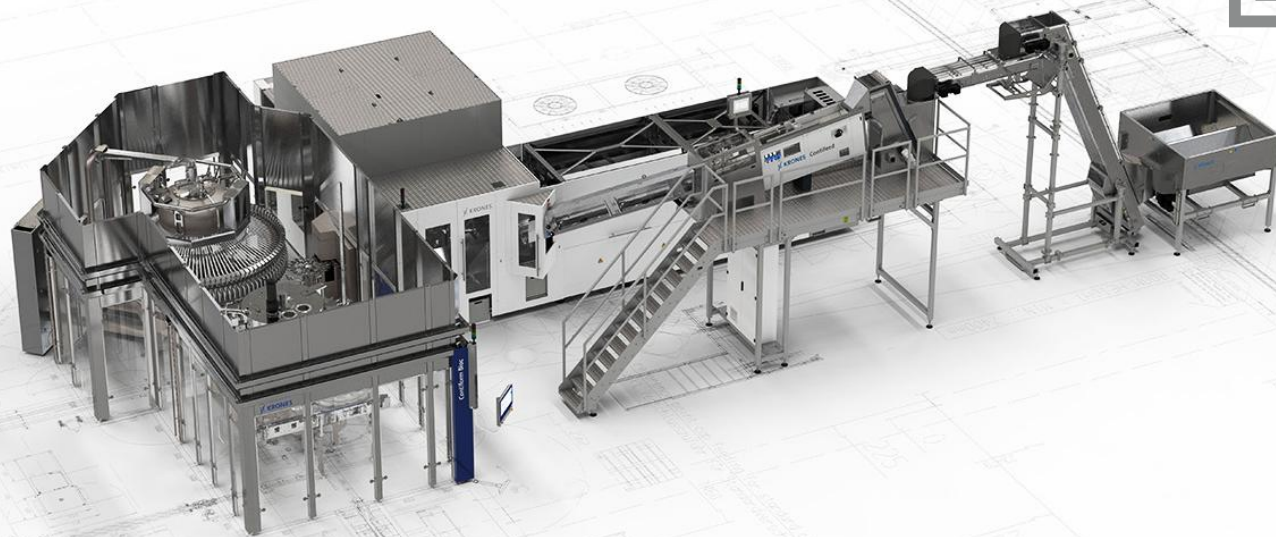




Contiform Bloc

Resource-saving and effective production of PET bottles



 **KRONES**

Bringing together what belongs together



Blow moulder and filler are an effective team. And that is the reason why we have perfected the popular combination of both machines even further in a single block. With a seamless drive concept, finely tuned transfer interfaces for every production program and precisely operating processes in stop situations, you can count on getting the very best out of your PET bottle line.

At a glance

- Functions: Stretch blow moulding, filling and capping
- Output: Up to 100,000 containers per hour*
- Processing range:
 - Non-carbonated and carbonated beverages, soft drinks, cooking oil, beer, wine and ketchup
 - Container volume up to 3.5 litres
 - Standard and lightweight containers
 - Round, square and rectangular containers
 - Containers of up to 100 percent rPET
 - Hot-filling and cold-filling possible
 - Flat caps and sports caps

*depending on the processing range



Functions and structure



Filling and
capping



Stretch
blow
moulding



Feeding and
heating the preforms



Fully-electronic PFR filling valve
with infinitely variable control

Up to 2,750 containers
per hour and blowing
station

Highly efficient infrared heating technology

Well-proven concepts with 30 percent less space requirement than with single machines!

Components

Stretch blow moulder



- Torsion-resistant platform with skip-and-run technology
- Only four internal horizontal preform and container transfer points
- Actively controlled transfer grippers
- Five high-precision Monotec servo motors with real-time synchronisation

Infrared heating technology

- Parabolic reflector for top infrared emitter
- Adjustable base reflectors: adjustable to the respective preform length
- Maintenance-free system of ceramic reflectors

Air Wizard Triple

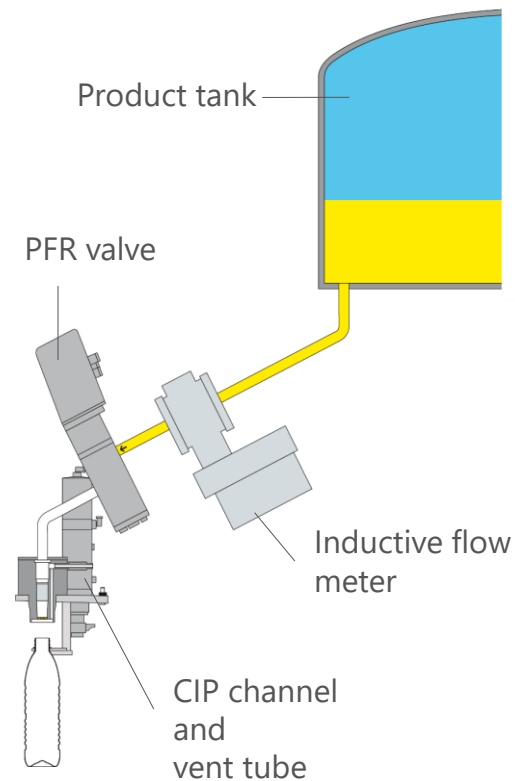
- Further developed compressed air recycling system with intermediate pressure levels for internal re-use of the compressed air
- Automatic self-optimisation of the blowing air recycling process
- Significantly reduced switching time dispersion



Components

Filler – maximal flexibility

Filler for non-carbonated beverages: Modulfill VFJ



- Maximum product quality through ideal adaptation of the filling speed to the respective product characteristics
- Best efficiency rates due to the combination with Krones cap feed units
- Simple maintenance and assembly of the PFR valve
- Maximum efficient cleaning due to the use of automatically positioned CIP cups
- Significant reduction of the required energy for the machines through use of PFR valves

- Microbiological safety due to contact-free filling and perfect machine design

Filler for non-carbonated, carbonated or hot* beverages: Modulfill VFS

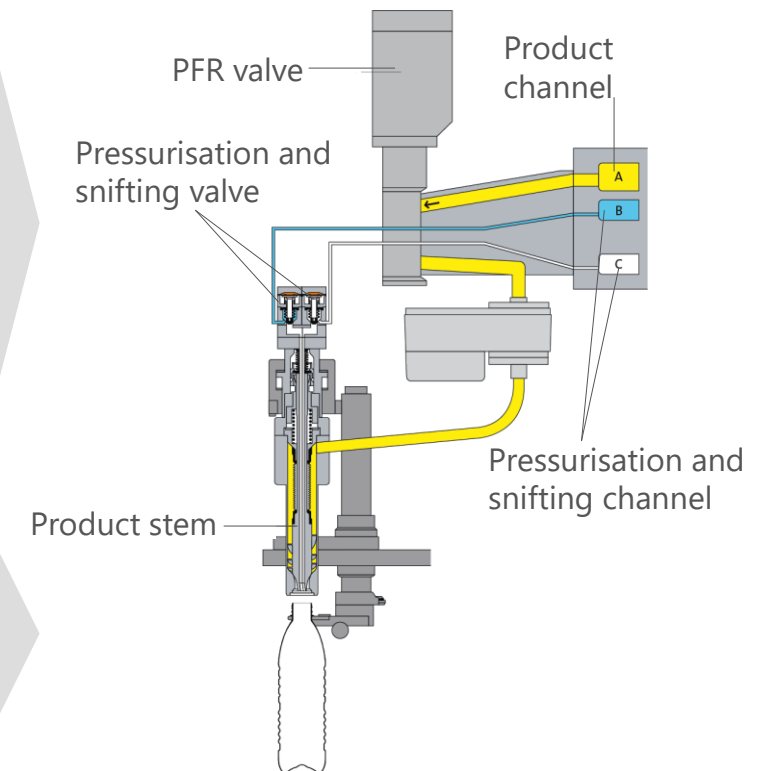


Illustration: Filling system for carbonated beverages

* Possible: Filling of non-carbonated and carbonated or non-carbonated and hot products with one system;
Case-by-case examination for filling carbonated and hot beverages with one system

Components

Drive and transfer technology



Drive technology

Servo drive use throughout all applications

- Energy-efficient
- Low wear
- Reliable

Transfer technology

- Actively controlled transfer grippers
- Container conveyance via neck handling
 - Quick and very precise preform and bottle transfer
 - Smallest possible contact area between the material and the machine
 - Gentle conveyance also for light-weight containers
 - Reduction of handling parts
 - No PET abrasion during the transfer

Servo Joint Control (SJC)

Single machines or block mode? Both is possible: Because with the Servo Joint Control, you can electronically decouple the blow moulder, labeller and filler from the block.

- Automatic decoupling during malfunction
- Automatic synchronisation during restart
- Manual decoupling of individual machines for efficient change-over processes
- Manual decoupling of individual machines for efficient maintenance

SJC makes it possible:
The Contiform Bloc thinks on its own!

Operation

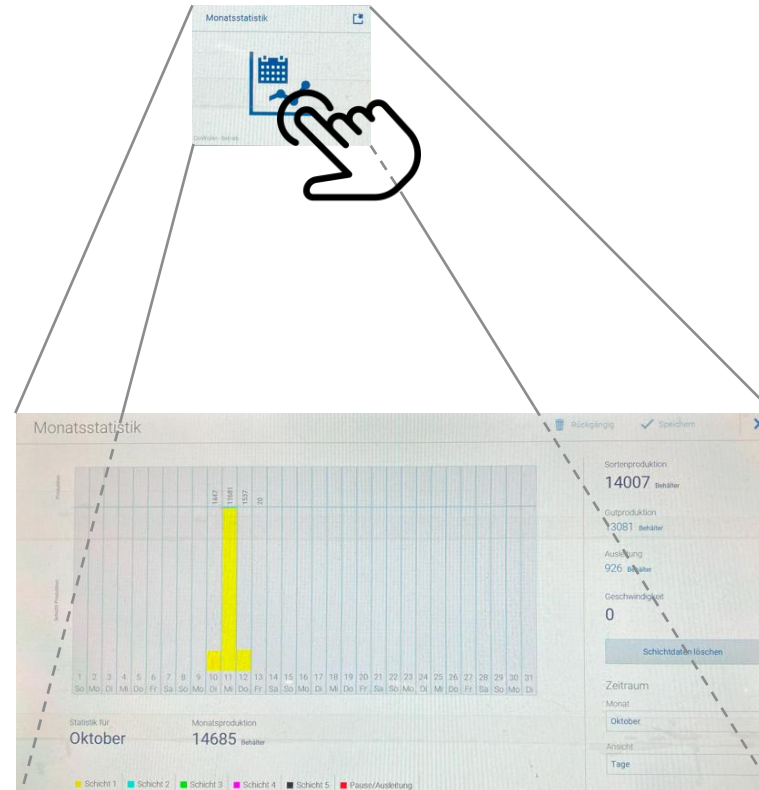


Human Machine Interface (HMI)

- Intuitive operation with task-oriented menus
- Uniform look and feel at all three individual machine HMIs

High degree of user friendliness

- Block operation **with just one operator**
- Height-adjustable 21-inch touch-screen (16:9)
- Optimal visibility due to large pivoting range of the screens
- VisiWin visualisation system
- LED status indicator for notifications



Your benefits

In comparison to a conventional line layout



Efficiency on smallest space

The Contiform Bloc requires up to 30 % less space than a blow moulder and filler installed in a conventional single machine arrangement. In addition, the compact line layout reduces potential sources of interference.

Sustainable block concept

The direct combination of individual machines into a block pays off twice: An air conveyor system for the blow-moulded containers, a bottle rinser or conveyor sections are no longer required, which, in turn, results in a reduced consumption of water, compressed air and energy in the complete line.

High hygienic standard

Having only a few interfaces and conveyor sections are key factors in achieving a high degree of cleanliness for the bottle material. The direct transfer of the bottles from the stretch blow moulder to the filler and capper prevents dirt being brought in.

Low operator requirement

The Contiform Bloc offers a good overview, short paths and a standardised operating concept. It also requires little change-over work and has an optimised maintenance program thanks to the use of servo technology.

Efficient and flexible line concept

With the Contiform Bloc, you are optimally prepared for bottle or product change-overs. It allows both, line change-over and restart in a quick and reproducible way.

Requesting a new machine

You can easily send a request for a non-binding quotation in our Krones.shop.



Certified ecological efficiency

Machines with enviro seal



At Krones, the enviro label stands for excellent ecological efficiency. Products that bear the enviro label have proven in an objective test procedure that they efficiently use energy and media, and that they produce in an environmentally-friendly way. The requirements are defined by the EME standard that has been developed by the TÜV SÜD (technical inspection authority) for assessing production plants. The enviro test procedure has also been certified by TÜV SÜD as an independent expert. Therefore, you can be sure that: an enviro label stands for ecological efficiency.

This is why the Contiform Bloc is enviro-classified:

Energy efficiency

- Increased station performance during stretch blow moulding and labelling
- Reduced energy consumption thanks to the omission of transfer starwheels and redundant components
- Lowest possible heating energy requirement through energy optimisation of heating zone and heaters
- Energy-efficient separated vacuum during labelling

Media efficiency

- Efficient cooling of the entire block
- Air Wizard Triple compressed-air recovery system
- No compressed-air consumption during the filling process

Environmental compatibility

- Use of enviro-compliant lubricants
- Recoverable CIP media



Everything from a single source



Training sessions at the Krones Academy – trained personnel for an increased efficiency of your line

The multifaceted offer by the Krones Academy ranges from operation, servicing and maintenance courses through to management training. We will gladly also create your individual training programme.

Evoguard – excellent valve technology all along the line

The Evoguard valve series comprises a modular system with hygienic and aseptic components which contributes to an increased performance at every point of the production line and has the perfect solution for every process step.

KIC Krones cleaning agents make your machine shine

Only if the production environment is immaculate, can your product be brilliant. KIC Krones provides you with the optimum cleaning agents and disinfectants for each individual production step.

KIC Krones adhesives – the all-rounder for a strong grip

Regardless if PET or glass, plastic or paper, labels or packagings – at KIC Krones, you will find your ideal adhesives for a high-quality product presentation.

Krones Lifecycle Service – Partner for Performance

It goes without saying that also after the purchase of new machines, Krones takes care of your lines: The Krones LCS experts are always there to help you reaching your goals and turn your wishes into optimal LCS solutions.

KIC Krones lubricants for each production step

Whether for gears, chains or central lubrication systems – our greases and oils are true all-round talents. They can reach every lubrication point, protect your line and ensure gentle treatment for your products thanks to their food-grade quality.

**SOLUTIONS
BEYOND
TOMORROW**

