



Contiform Bloc BL

Blow-moulder-labeller block

 **KRONES**

Impressive efficiency!



Blocking a stretch blow moulder and labeller brings many advantages. And that is the reason why we have further perfected the combination of both machines in one 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 production.

At a Glance

- Functions: Stretch blow moulding and labelling
- Output: Up to 100,000 containers per hour^{1 2}
- Processing range:
 - Cylindrical and square PET containers
 - Container volume up to 3.5 litres
 - Standard and lightweight containers
 - Containers of up to 100 percent rPET
 - Self-adhesive labels and reel-fed plastic labels



¹ Depending on the processing range | ² Limitation to max. 72,000 containers per hour if a Kronos air conveyor system is used

Functions and structure



Labelling and cooling of the container base



Stretch blow moulding



Feeding and heating the preforms



Labelling station with selective labelling for up to 50,000 containers per hour

Up to 2,750 containers per hour and blowing station

Highly-efficient infrared heating technology

The concept for a considerably smaller space requirement compared to individual systems!

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

Modular labellers



Why label first and fill afterwards?

- Full bottles can have varying internal pressures.
- These variations can impact the labelling result.
- The bottles do not have any unwanted moisture.

Solution: Contiform Bloc BL...

- labels the bottles before filling them.
- pressurises the empty bottles with compressed air.



Result

- Consistently excellent label fit
- Optimum conditions for lightweighting
- Ideal access for handling parts change-overs
- Optimal accessibility from three sides
- "No bottle – no label" function
- Reduced hotmelt consumption due to "Gravure Glue Application"
- Unique servo motor technology
 - Flexible selection of the pitch
 - Maximum stable handling of thin, sustainable films



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 BL thinks on its own!

Operation

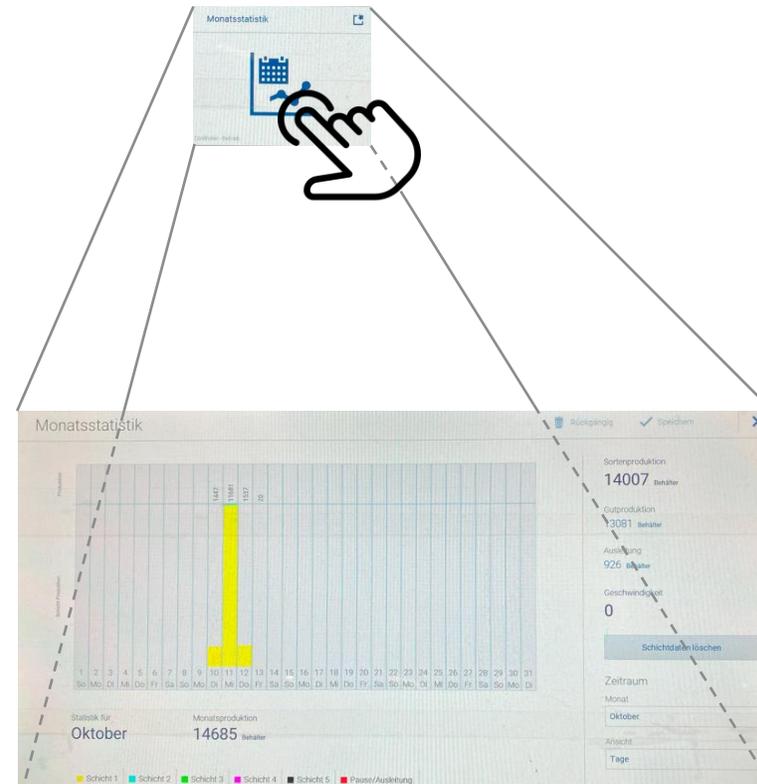


Human Machine Interface (HMI)

- 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



Create your personal Contiform Bloc BL



Simple and cost-efficient customisation with a broad range of function packages

- Inspection of empty bottles
- Inspection of preforms
- Automatic Multireel reel magazine
- Anti-static device
- Fill level measurement for labels
- Splicing point detection
- Extraction system for hotmelt vapours
- Automatic label extraction system
- and much more ...



Benefits to you



One operator for all machines

The block is designed as an organic unit in which all essential control and function elements are centrally combined. This way, just one operator can easily operate the entire Contiform Bloc BL on his own.

Trouble-free continuous operation

Full power with no breaks: The labelling module automatically detects bottle gaps and does not apply glue or labels in this case. Disruptions due to missing bottles and unnecessary glue and label consumption are therefore not an issue.

Cost-efficient customisation

A wide range of equipment options make it possible to adapt the block to special requirements and keep the costs as well as the commissioning time low at the same time.

Gentle treatment for PET containers

The active transfer grippers only touch the preforms and bottles in their neck area. This makes the contact area between the material and the machines as small as possible and minimises the risk of damage.

Energy savings

From the servo drives to the electromagnetic and compressed-air free stretching systems: The topic of energy efficiency goes all the way through the block just like a red thread. Particularly ambitious savings targets can also be achieved with the air recycling system, which is part of the energy-saving package.

New machine enquiry

You can easily enquire 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 BL 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**

