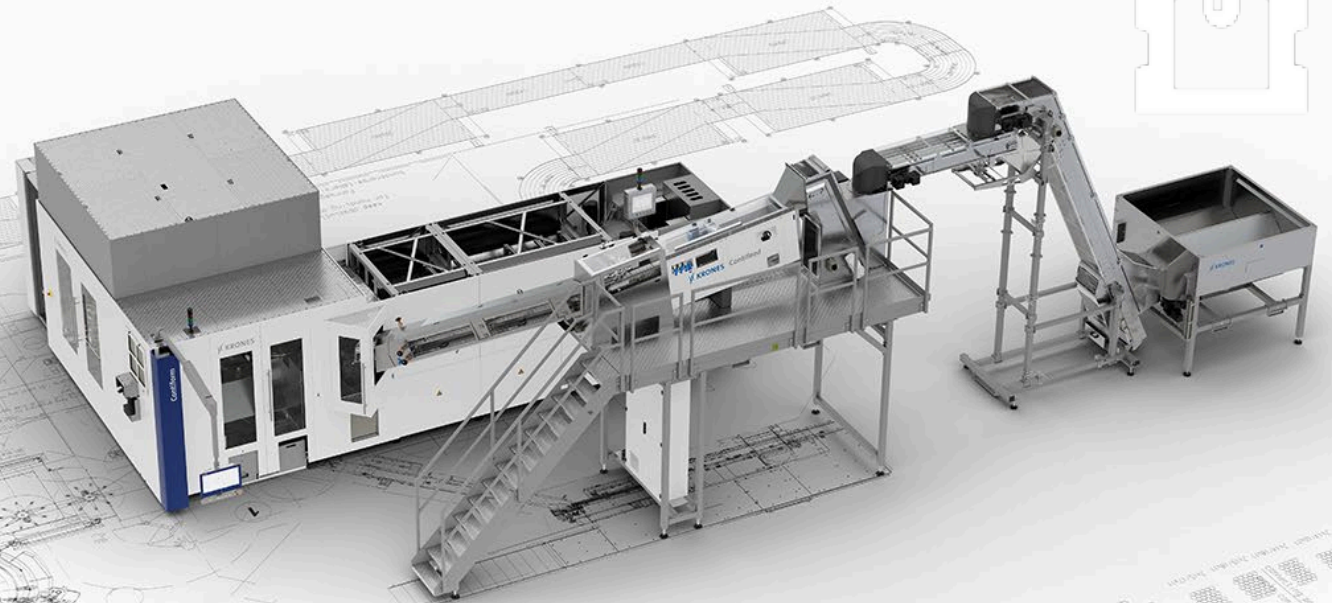
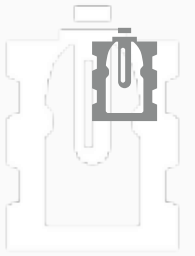


PET-View

Preform and container inspection - directly in the blow moulder



Safe blow moulding process, immaculate bottle quality



You want to make sure that only faultless preforms enter the blow moulding process? You also want to make sure that only faultlessly blow-moulded bottles are fed to the filler afterwards? PET-View grants both. The inspection system checks both, preforms and bottles using various quality criteria and systematically rejects faulty material.

Whether these are being processed on a stretch blow-moulder for the first time or repeatedly is irrelevant: Because PET-View applies the same thoroughness to virgin material as well as to preforms and containers made from up to 100 percent recyclate.

At a glance

- Inspection of preforms
- Inspection and quality testing of bottles that have just been blow-moulded
- Equally suitable for virgin and rPET
- Wide range of inspection criteria
- Integration into the blow moulder
- Operation via the blow moulder's touch-screen panel



Overview

What are the optional functions?

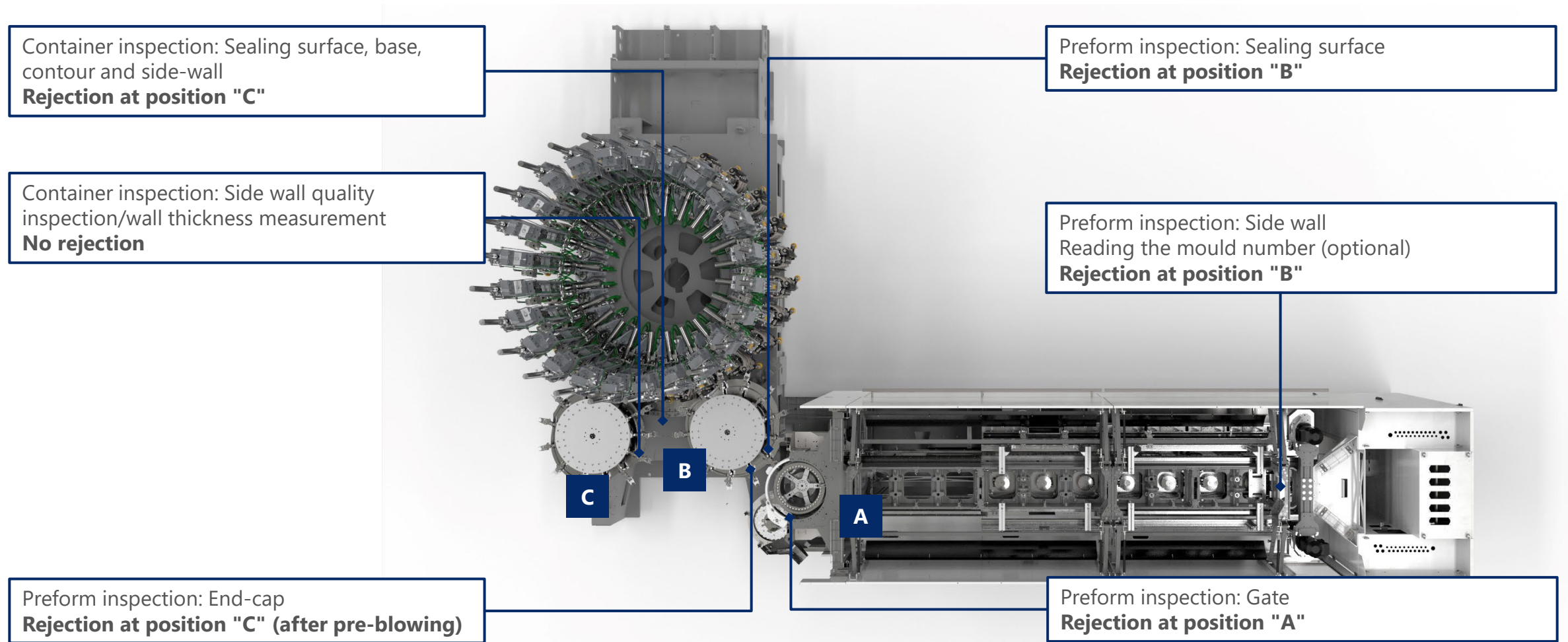


For preforms	Inspection criteria
360° side-wall	– Contamination – Banana shape – Trapped air – Length of the gate – Length and diameter – Reading the mould number (optional)
Sealing surface	– Ovality – Damage – Opaque faults
End-cap	– Contamination – Gate not in the centre – Banana shape – Colour
Gate	– Gate position – Banana shape – In wrong position

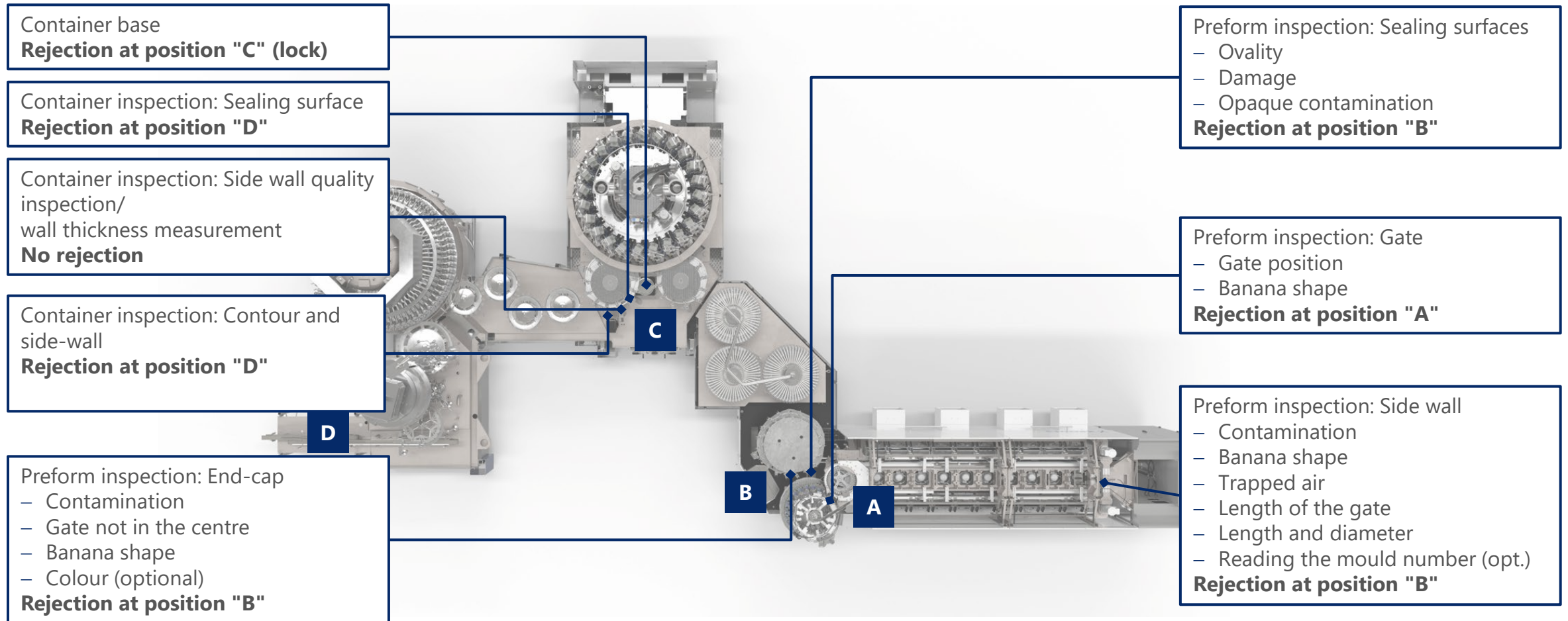
For containers	Inspection criteria
Sealing surface	– Ovality – Damage – Opaque faults
Base	– Opaque faults – Position of gate (centre) – Holes – Cracks at the gate – Pearlescence and turbidity
Contour and side-wall	– Contamination – Fogging – Contour
Wall thickness	Material distribution in the side-wall

Overview

What happens and where?



PET-View in the Contipure AseptBloc with recirculation rinser



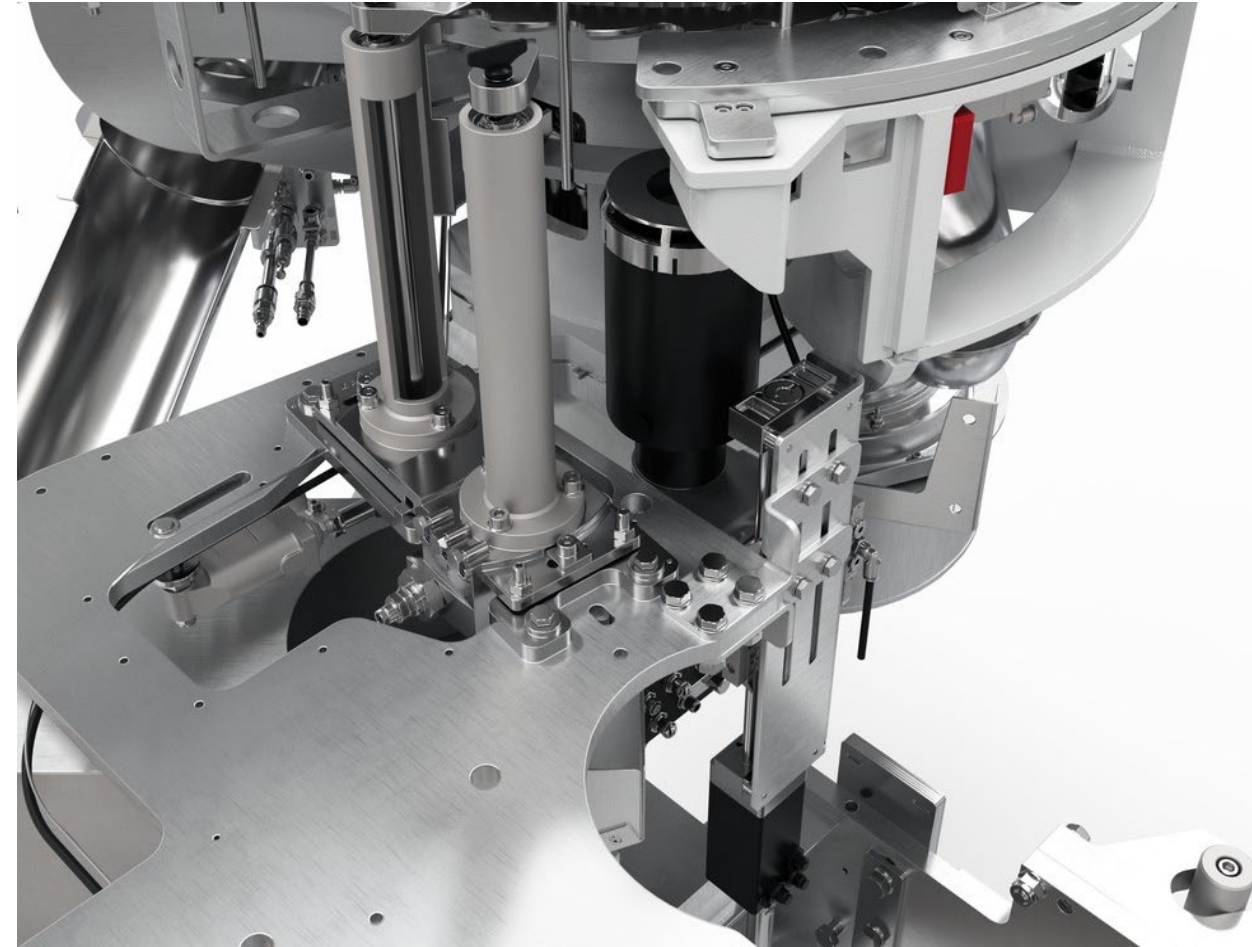
Preform inspection Gate



Inspection criteria

Gate position (banana shape)

In wrong position



Preform inspection

Side-wall



Inspection criteria

Contamination

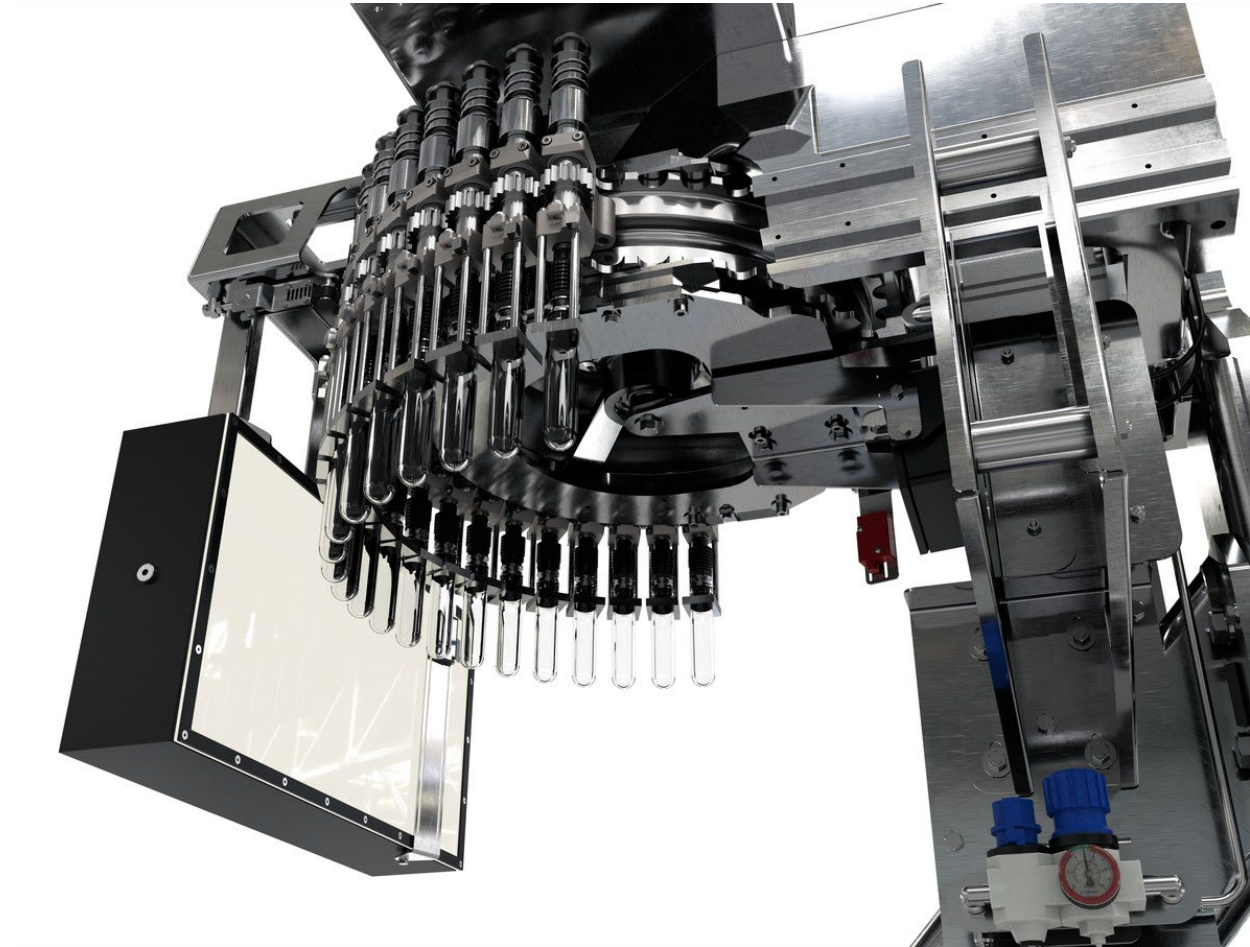
Banana shape

Trapped air

Length of the gate

Length and diameter

Optional: Reading the mould number on the preform



Preform inspection

Neck finish



Inspection criteria

Ovality

Damage

Opaque faults



Preform inspection

End-Cap



Inspection criteria

Contamination

Gate not in the centre

Banana shape

Colour



Container inspection

Neck finish



Inspection criteria

Ovality

Damage

Opaque contamination



Container inspection

Base



Inspection criteria

Opaque contamination

Gate (centre)

Holes

Cracks at the gate

Stress whitening and haze



Container inspection

Contour and side-wall



Inspection criteria

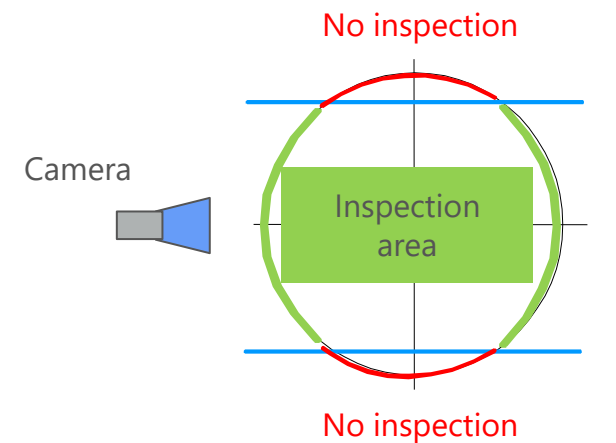
Contamination

Fogging

Contour

Remarks

- No 360° inspection area
- The inspection area is valid for the faults in the transparent area of the bottle side facing the camera.
- The minimum detectable fault size may be larger for faults on the rear side of the bottle.
- Moisture, steam in or on the container may affect the inspection result negatively.



Container inspection

Neck finish



Inspection criteria

Ovality

Damage

Opaque faults



Sealing surfaces inspection in the Contipure AseptBloc

Container inspection

Base



Inspection criteria

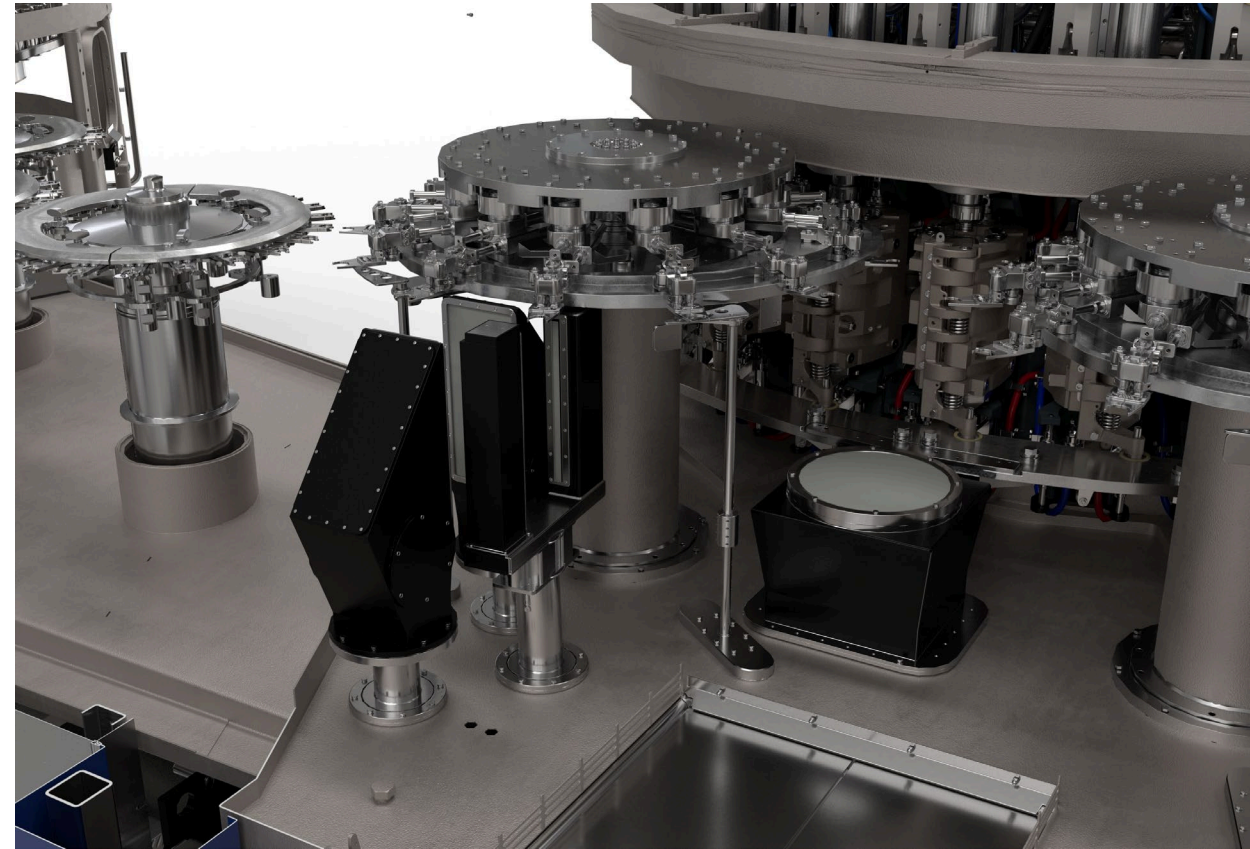
Opaque faults

Position of gate (centre)

Holes

Cracks at the gate

Pearlescence and turbidity



Base inspection in the Contipure AseptBloc

Container inspection

Contour and side-wall



Inspection criteria

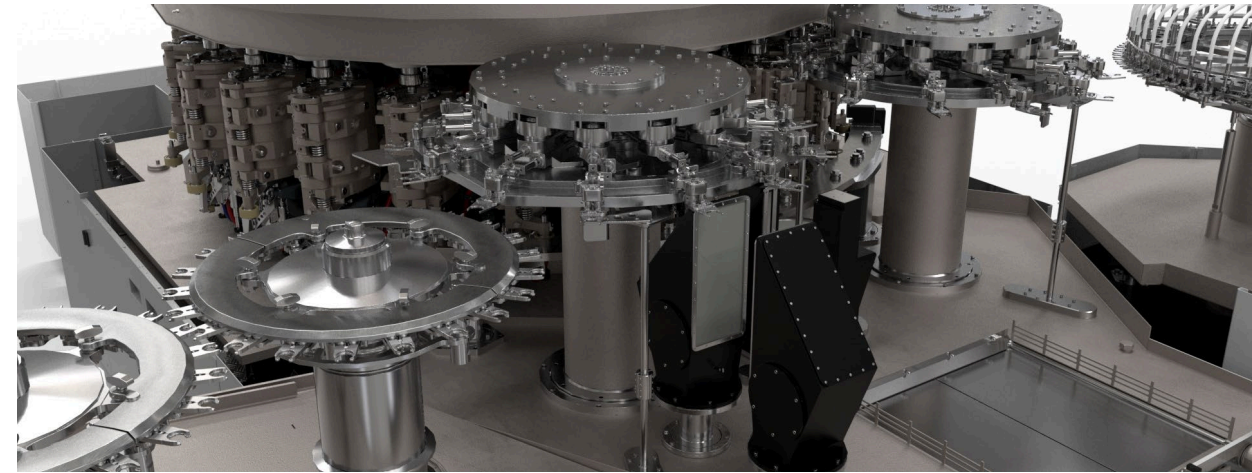
Contamination

Fogging

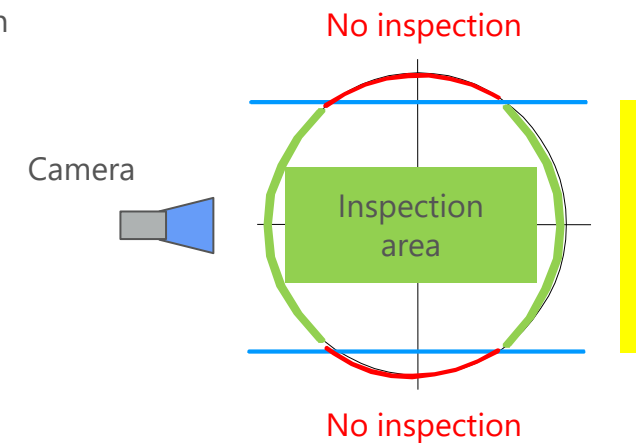
Contour

Remarks

- No 360° inspection area
- The inspection area is valid for the faults in the transparent area of the bottle side facing the camera.
- The minimum detectable fault size may be larger for faults on the rear side of the bottle.
- Moisture, steam in or on the container may affect the inspection result negatively.



Contour and side-wall inspection in the Contipure AseptBloc



Container inspection

Side-wall quality inspection/wall thickness measurement



Inspection criteria

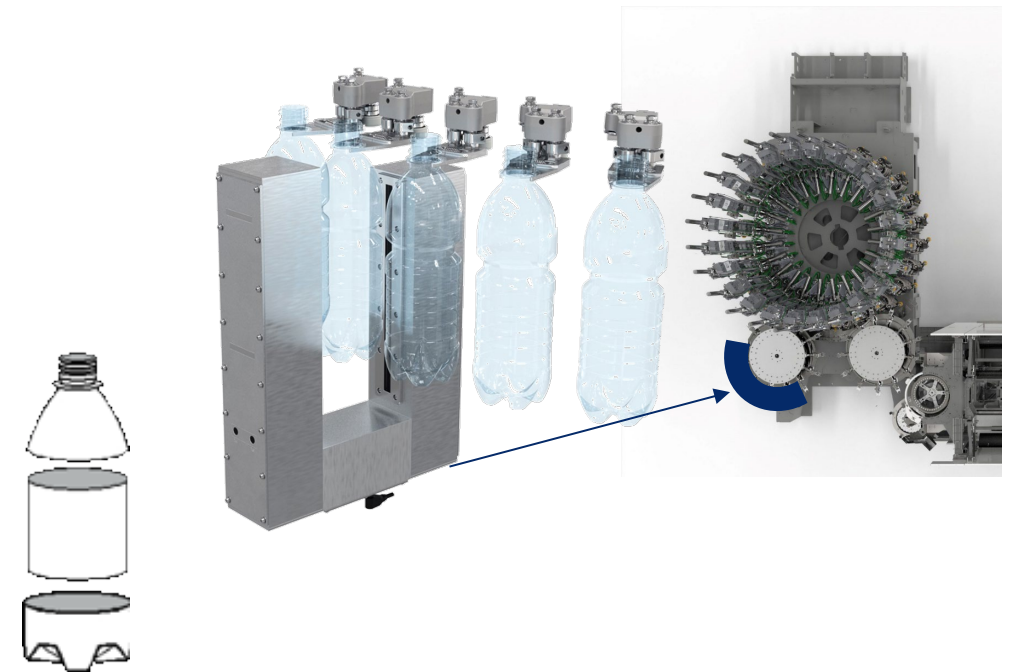
- Inline measurement of the container wall thickness
- Inspection of the material distribution

Benefits to you

- Permanent quality monitoring of the container
- No random sampling necessary in offline operation
- Independence from preform material properties (virgin PET or rPET)
- No calibration necessary

Remark:

The data is displayed on the HMI and a warning is given if the measured values are outside the defined range.



Wall thickness measurement:

Tests the absorption behaviour in the infrared spectral range

Container inspection

Side-wall quality inspection/wall thickness measurement



Technical features

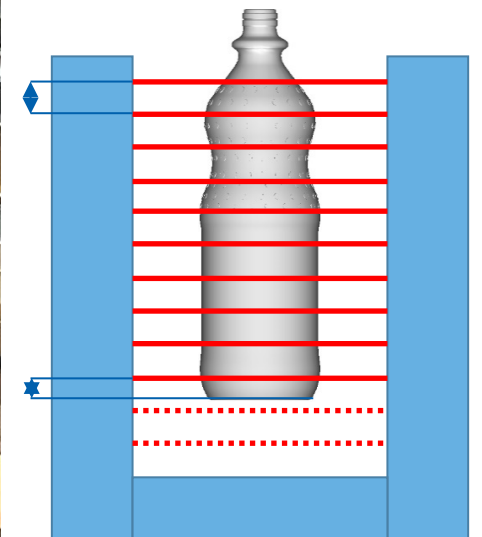
32 infrared sensors

Two measurements per sensor, 10 mm grid

No container rejection, no data storage



Set-up without active
blow-moulder control

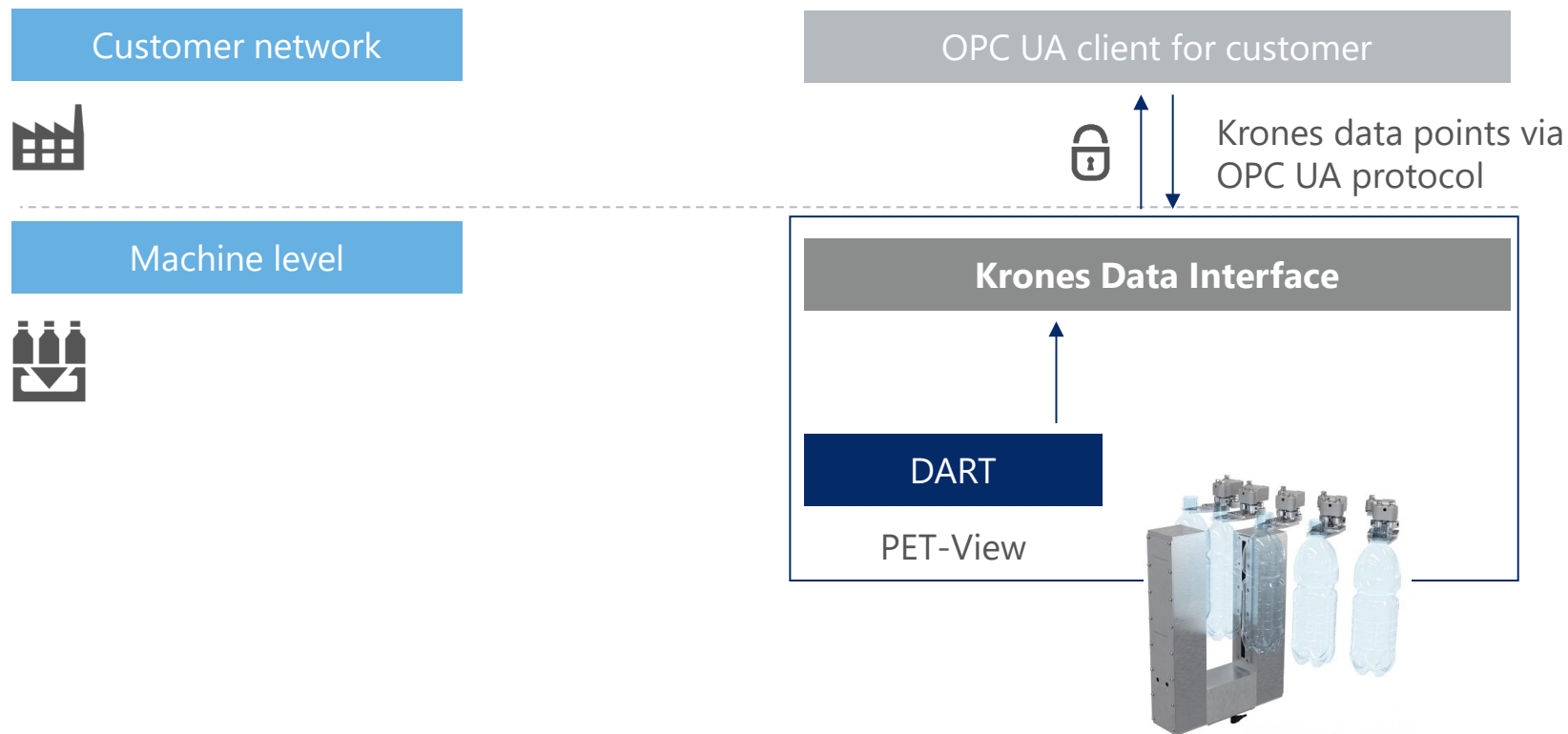


Data transfer

Krones Data Interface



The data is transmitted via the Krones Data Interface into the customer network. A client server is required on the customer side to store the large amounts of data.



Benefits to you



Excellent bottle quality

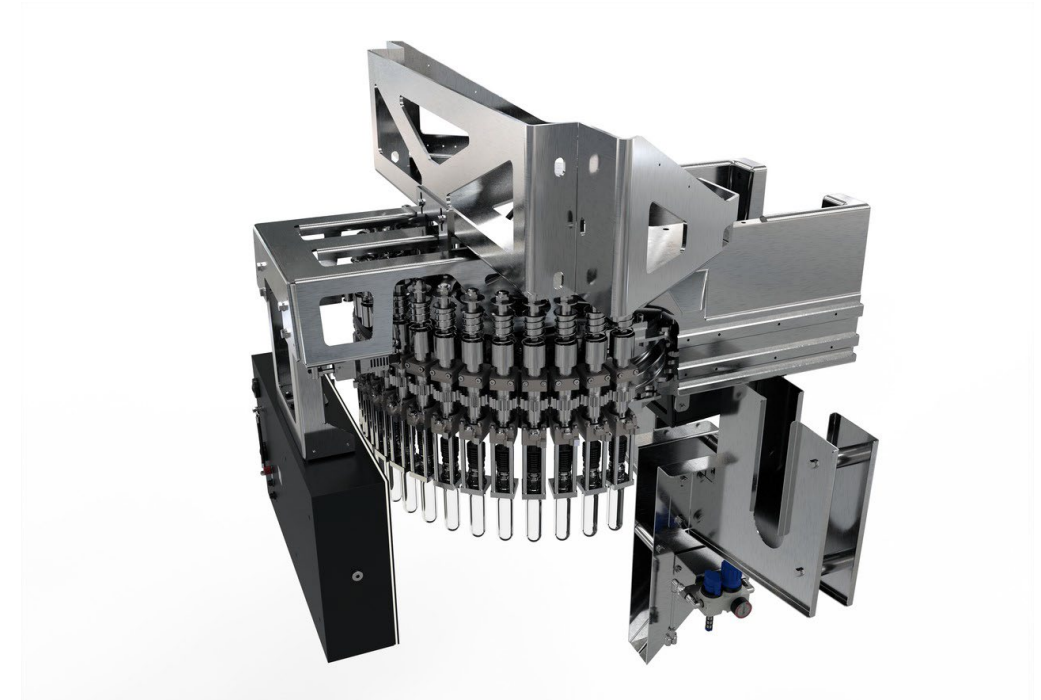
PET-View systematically rejects faulty preforms and PET bottles and thereby ensures first-class container quality.

Trouble-free blowing process

The inspection system enables only faultless preforms for blow moulding. It thereby protects the blow moulder from malfunctions and enables a smooth bottle production.

Comfortable and efficient access

The system can be completely operated via the blow moulder's touch-screen panel.



Requesting a new machine

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



Ingeniq: line concepts reimagined

PET-View as part of Ingeniq for bottling still water in PET containers

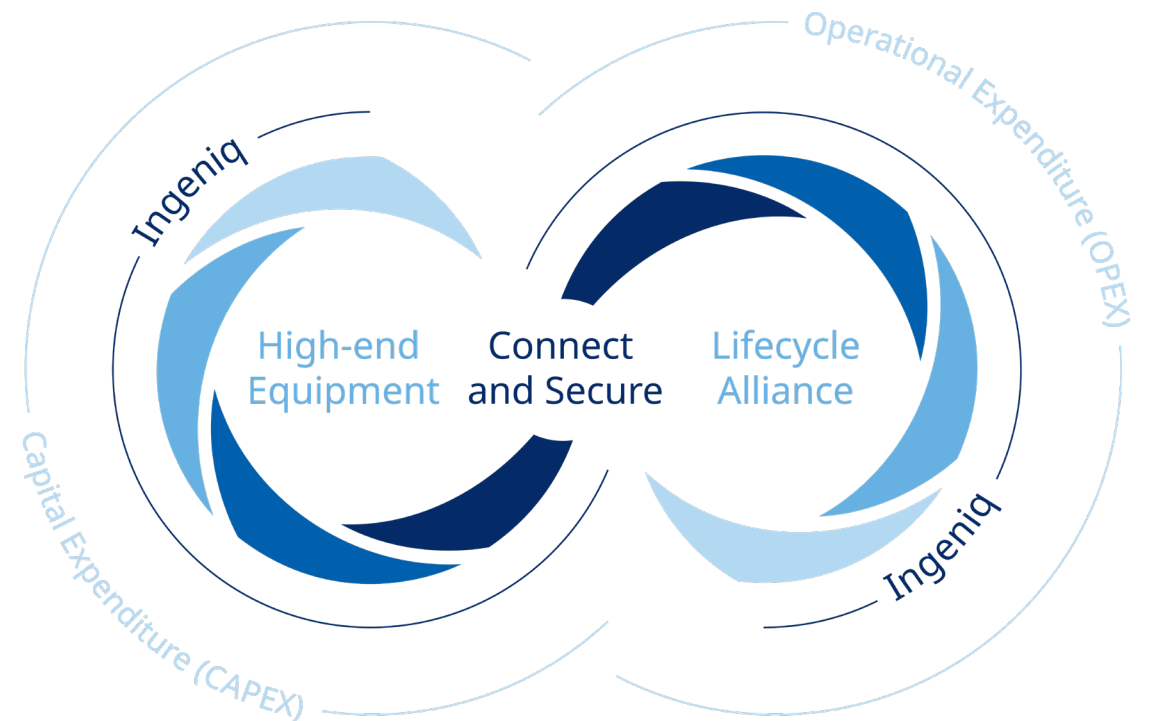


Ingeniq is more than just a line – it is a comprehensive overall concept consisting of three modules:

- High-end equipment, which means the line itself – technologically advanced, modular, future-proof
- Connect and Secure agreement – the basis for a Krones remote support and digital security
- Lifecycle Alliance – a joint responsibility for securing and optimising plant performance (output, Lifecycle costs) with the highest level of service Krones has to offer

This is what distinguishes PET-View as part of Ingeniq

- Advanced camera systems and sensors enable the best possible control of preforms and blown bottles
- Continuous inline measurement of preform moisture and temperature as well as the wall thickness distribution of the blown bottle ensure consistent product quality



Everything from a single source



Krones Academy – Know-how for maximum line performance

The Krones Academy's training courses will help you enhance your team's skills. Whether it's operation, servicing, maintenance or automation: Our face-to-face training courses, digital learning programmes and individual qualifications cover a wide range of topics.

Krones Service – comprehensive support

It goes without saying that also after the purchase of new machines, Krones takes care of your lines: Our service team is always on hand to support you in ensuring the long-term operation of your lines.



**SOLUTIONS
BEYOND
TOMORROW**

