

**KRONES Aircontronic Compact**  
A good nose with a hygienic design



# Danger foreseen, danger averted

KRONES Aircontronic Compact

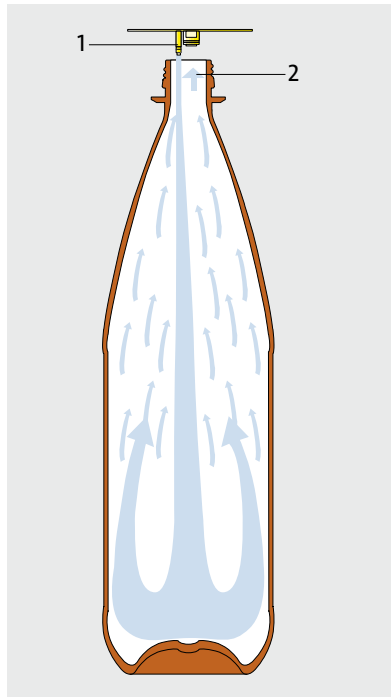
On average, one returnable PET bottle in a hundred contains substances which cannot be removed by the washer. The Aircontronic Compact inspector reliably detects them. To do so, it uses a state-of-the-art mass spectrometer. The machine itself conforms to all the requirements of hygienic design. Dirt deposits do not stand a chance – and the containers are clean in a flash!



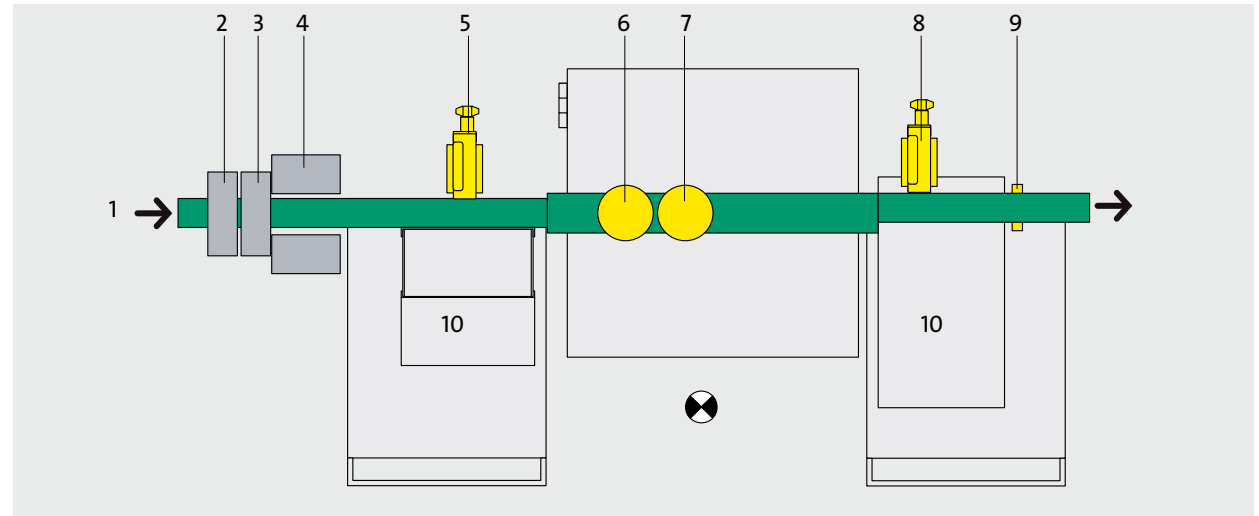
## Method of operation

The inspector is installed directly on the single-lane conveyor. A two-stage, proximity-type vacuum pump system takes a gas sample from the bottles as they pass by. The sample is ionised in a quadrupole mass spectrometer and routed by way of electromagnetic fields to a detector. There it is sequentially broken down by molecule mass in order to quantify the various masses.

To also identify liquids with no gas phase, the inspector can additionally be equipped with a CCD camera. The camera analyses the residual liquids parallel to the detector based on their colour and also scans the container floor for extreme dirt contamination. All detected foreign matter is analysed with an industrial PC. If a container exceeds the limit values defined for it, it is immediately filtered out.



- 1 Neutral air is blown into the container.
- 2 The mixture of air and gas is drawn off and examined for contamination.



Layout of a fully equipped Aircontronic Compact

## Applications

- Detection of petrochemicals, aromatic and volatile hydrocarbons in returnable PET containers
- Foam detection system (optional)
- Detection of foreign materials (optional)

## Output range

Up to 36,000 containers per hour

- 1 Machine protection without rejection at the infeed (machine stop with horizontal containers)
- 2 Height detection unit (optional)
- 3 Cap inspection unit (optional)
- 4 Optimised scuffing detection (optional)
- 5 Rejection at machine infeed (optional)
- 6 Mass spectrometer
- 7 Colour camera
- 8 Rejection of contaminated containers
- 9 Rejection monitor
- 10 Collecting tank



## Design features

- Linear machine system
- Mounted on single-lane conveyor
- Contamination detection by mass spectrometer
- Contact-free sampling
- Hygienic design

## Additional equipment

CCD camera for colour analysis of liquids with no gas phase



*Remote maintenance using the remote service system*



*Ergonomic touch-screen operation*

## Operation and change-over

- Change-over to other container types without having to change the handling parts
- 15 inch touch-screen
- Display and storage of all relevant operating data
- Graphic malfunction display
- Secure access to the user interface using individual transponders
- Different access levels for individual operators depending on assigned authorisation
- Monitoring and parameterisation possible via remote service

# Your benefits

KRONES Aircontronic Compact

## ■ Compact construction

The Aircontronic Compact lives up to its name: The linear machine's compact design means it takes up little space on the bottling line.

## ■ Hygienic design

Its open design with sloping surfaces protects the inspector against dirt deposits and minimises cleaning effort.

## ■ Economical to maintain

The Aircontronic Compact has no moving parts, thus protecting it from wear and tear.

## ■ Quick format change-over

The inspector needs no type-dependent handling parts at all, and so can be converted to handle different container sizes in just minutes.

## ■ Protection against unauthorised access

Individual transponders and different levels of access allow the access rights for each operator to be precisely defined.

## ■ Uniform control logic

All KRONES machines are equipped with a uniform operating concept for maximum user friendliness.

## ■ Remote diagnosis and maintenance

KRONES Remote Service provides you with round-the-clock expert advice and support. If required, a KRONES technician can access your inspector via a secure data link. This means parameter settings, software updates and fault analyses can be carried out rapidly and cost-effectively, with absolute security.



*Liquid colour  
detection by  
camera*

We do more.

 **KONPLAN**

 **SYSKRON**

 **KIC KRONES**

 **KOSME**

 **HST**  
KRONES GROUP

 **EVOGUARD**

**KRONES AG**  
Böhmerwaldstraße 5  
93073 Neutraubling  
Germany  
Phone +49 9401 70-0  
Fax +49 9401 70-2488  
E-mail [info@krones.com](mailto:info@krones.com)  
Internet [www.krones.com](http://www.krones.com)

**KOSME s.r.l. unipersonale**  
Via dell' Artigianato, 5  
46048 Roverbella (Mantova)  
Italy  
Phone +39 0376 751011  
Fax +39 0376 751012  
E-mail [kosme@kosme.it](mailto:kosme@kosme.it)  
Internet [www.kosme.com](http://www.kosme.com)

**EVOGUARD GMBH**  
Dr.-Hermann-Kronseder-Straße 1  
93149 Nittenau  
Germany  
Phone +49 9436 307 700  
Fax +49 9401 70 94 3700  
E-mail [info@evoguard.com](mailto:info@evoguard.com)  
Internet [www.evoguard.com](http://www.evoguard.com)

**KIC KRONES**  
Internationale Cooperationsgesellschaft mbH  
Böhmerwaldstraße 5  
93073 Neutraubling  
Germany  
Phone +49 9401 70-3020  
Fax +49 9401 70-3696  
E-mail [kic@kic-krones.com](mailto:kic@kic-krones.com)  
Internet [www.kic-krones.com](http://www.kic-krones.com)

**KONPLAN s.r.o.**  
Poděbradova 2842/1  
301 00 Plzeň  
Czech Republic  
Phone +420 377 918 109  
Fax +420 377 918 139  
E-mail [pilsen@konplan.cz](mailto:pilsen@konplan.cz)  
Internet [www.konplan.cz](http://www.konplan.cz)

**HST MASCHINENBAU GMBH**  
Gewerbstraße 19  
23942 Dassow  
Germany  
Phone +49 38826 8878-0  
Fax +49 38826 8878-1  
E-mail [info@hst-gmbh.com](mailto:info@hst-gmbh.com)  
Internet [www.hst-maschinenbau-gmbh.de](http://www.hst-maschinenbau-gmbh.de)

**SYSKRON GMBH**  
Oskar-von-Miller-Straße 6b  
92442 Wackersdorf  
Germany  
Phone +49 9431 79857-0  
Fax +49 9431 79857-11  
E-mail [info@syskron.com](mailto:info@syskron.com)  
Internet [www.syskron.com](http://www.syskron.com)

 **KRONES**