

# technews

## BEVERAGES

QUALITY /// SAFETY /// EFFICIENCY

Full container check

### It's prime time!

**S**imply easy! HEUFT systematically sets new standards with regard to detection accuracy and user friendliness when checking the quality of full containers. The latest example: the HEUFT *prime*.



Inspecting the fill level and measuring the internal pressure, checking the presence, position and tightness of closures, detecting unlabelled containers, burst bottles and serial faults, consistently rejecting faulty drinks packaging: the HEUFT *prime* with its modular design provides all the functions which a full container check requires.



... discover more on page 3

Empty bottle inspection

### The HEUFT *InLine* goes X-ray

**S**imply detecting more! The new HEUFT *InLine IX* is the first empty bottle inspector in the world to combine tried and tested detection processes with pulsed X-ray technology.



The glass in glass detection presents inspection systems with just as great a challenge as the identification of base, sidewall or thread faults. The HEUFT *InLine IX* copes with these! Because this world first is not only

equipped with superior optical and electrical technologies but also with X-ray strobes for the first time.

... discover more on page 2

### JÜRGEN MEISTER

Project Team Leader - Technical Sales  
HEUFT SYSTEMTECHNIK GMBH



*"The HEUFT canLine ensures a smooth container flow. We were able to experience this in South America along a canning line where it removes faulty cans from the filler feed in good time and therefore prevents unnecessary stops."*

Empty can inspection

### Effective protection

**T**he new HEUFT *canLine* removes empty cans which are damaged, cannot be reliably sealed, are contaminated or incorrectly printed before they can impair the quality of the final product and the productivity of the complete filling line.

HEUFT has expanded its range of products with a new, compact inspection system in order to check the safety and quality of drinks cans even before they are filled: the HEUFT *canLine* identifies dented and misshapen containers just as precisely as those with

damaged flanged edges and faulty imprints. The empty cans in question are consistently rejected. This eliminates the danger of them threatening the safety and quality of the end product. In addition this ensures that only those cans get through which

can be filled and sealed faultlessly and without any problems. The outstanding detection reliability of the already field-proven HEUFT *canLine* is due to the interaction of specially adapted reflection-free LED illumination, the very latest camera technology and the particularly effective new HEUFT *reflexx<sup>2</sup>* image processing system (see the info box on page 2).



Empty cans which cannot be reliably sealed, are misshapen or contaminated with foreign objects are consistently identified.

**MARKUS OSTER**

Sales Manager  
HEUFT SYSTEMTECHNIK GMBH



"Two technologies unite here which meet the highest standards when inspecting empty bottles. The result: even more safety for my customers!"

Empty bottle inspection

# The HEUFT InLine goes X-ray

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Servo-controlled conveyor belts align the bottles exactly.

**i The HEUFT reflexx<sup>2</sup>**

Higher calculating speeds, higher resolution, higher detection quality: the performance of the image processing procedure, especially designed for HEUFT systems, has increased dramatically! HEUFT reflexx<sup>2</sup> is the name of the logically consistent development of the highly integrated hardware and software for the real-time combination and analysis of a wide range of detection pictures. It identifies even smaller faults and clearly distinguishes them from tolerable objects at the same speed due to considerable plus points: the computing power, resolution, colour depth, contrast, filters and analysis tools. The function for automatically saving all the pictures is completely new. Electricity consumption has also been drastically reduced.



As a result detection reliability enters a new dimension with regard to the tracking down of glass splinters, shell-shaped fractures, base chips and thread cracks. A glass in glass detection is even possible when the transparent foreign object is surrounded by residual liquid. For this the HEUFT InLine IX creates several very clear X-ray images, using an unequalled low radiation exposure, which cover the complete volume of each empty bottle to be inspected. They are passed on to the new

HEUFT reflexx<sup>2</sup> high-performance image processing system (see the info box) for evaluation in the same way as the camera pictures created by the superior optical technologies. Consequently faults which are hardly visible to the naked eye are reliably detected.

The conveyor belts of the HEUFT InLine IX are driven by means of precisely working servo motors for an optimal all-around inspection and fast, automatic brand changeovers.

As a result empty bottles of various shapes are each aligned precisely at the individual inspection stations. In addition the servo technology reduces the proportion of components prone to wear. This also makes the new development stand out from conventional devices. However what really distinguishes it is the patented, pulsed radiometric measurement. Because it is possible to simply detect more with this.



The HEUFT InLine IX identifies glass splinters, thread cracks and shell-shaped fractures, to name but a few.

3 ... 2 ... 1!

One concept, one system, one design – numerous possibilities: the consistent modular design of the HEUFT range of products

puts an end to disorder in the bottling hall! A modular system for a wide range of technologies, modules and tasks with a uniform operating concept ensures clarity and simplicity for in-line quality assurance along filling and packaging lines. Whether empty bottle inspection, full container check, labelling or final container inspection: HEUFT creates solutions with a system because „HEUFT is Systemtechnik“!



Full container check

## It's prime time!

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It is practically impossible to make any mistakes when working with the new system due to the high degree of automation and an audio-visual user guidance which concentrates on the essentials. Each user is guided step by step through the functions relevant to him and his task. The positions of the individual detections adjust themselves automatically during a brand

change. A test container program and a statistical analysis verify whether the changeover has proceeded correctly. Container tracking and reject verification tools ensure that each bottle or can has really been checked and that each faulty one is rejected. Repeatedly occurring quality defects and their causes are identified at an early stage by means of the serial fault detection and by continuously monitoring the filler valves. Even the sampling process for internal quality assurance

purposes functions automatically. The compact, network-compatible and WLAN-enabled HEUFT *prime* stands out due to its consistent modular system with in-house developed, long term available hardware and software just like all the HEUFT systems: there are suitable modules for each type of packaging and each application. For example there are detection units with high frequency, infrared or X-ray technology for checking fill levels and there is a choice between

the HEUFT *mono*, the HEUFT *flip*, the HEUFT *DELTA-K* and the HEUFT *DELTA-FW* for rejecting faulty containers. This versatility combined with maximum detection reliability and user friendliness sets new standards when it comes to checking full containers.



The presence and integrity of the closures are also checked.

### The HEUFT *prime*: the advantages

- audio supported touchscreen user guidance
- motor-controlled adjustment of the detection modules
- PDA connection for documenting production
- change assistant for an easy and fast program change
- test bottle program for automatically checking the adjustments after a brand change
- integrated warning lights in order to identify malfunctions directly
- rapid login
- instant on / off

## Come and have a look!

**Whether you are planning to buy one of our systems or wish to attend a training course, workshop or seminar: the new HEUFT Customer Center is always worth a visit!**

You can experience almost all our inspection and quality assurance systems in action at any time on the upper floor. Live tests are even possible with products and packaging from your own portfolio. Please make

an appointment by sending an email to [visit@heuft.com](mailto:visit@heuft.com). As a course participant you can take your time testing important tasks, such as a brand change, directly at the device in our new Customer Center

without impairing the operation of your own filling line. Current course dates at the HEUFT Training Center can be found here: [www.heuft.com](http://www.heuft.com). Detailed contact information is on the back of this newsletter.

### JÜRGEN BREITBACH

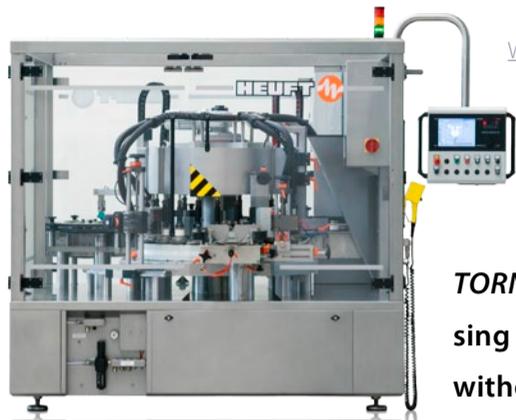
Technical Trainer  
HEUFT SYSTEMTECHNIK GMBH



„The ultra modern equipment in the training and workshop rooms of the new HEUFT Customer Center ensure an optimal learning environment.“



Wrap-around labelling



## Flexibility is trumps

Containers can now be precisely aligned for accurate wrap-around labelling with the HEUFT *TORNADO R flex* using certain characteristics such as embossing due to servo technology. Format changes are possible without replacing mechanical parts at the bottle carrier.

Applying wrap-around labels exactly where they belong: the HEUFT *TORNADO R flex* manages to do this! Because this further development of the labelling machine aligns the bottles using servo control. For this typical characteristics such as embossing, orientation marks, tamper evident

labels or mould seams are detected by means of optical methods and used as alignment marks. As a result the system applies wrap-around labels extremely precisely in the correct position and with the least possible offset at the overlap. Furthermore the integrated servo technology makes particularly

easy and fast program changes possible. The rotating cams of the wrap-around labeller can be programmed depending on the brand because they are not mechanically but electronically controlled. Therefore the time-consuming replacement of change parts is not necessary in this area. Differ-



ent sizes of container can be processed using the same machine. This flexibility makes the HEUFT *TORNADO R flex* a real all-rounder which shows its strengths particularly along filling lines with a great diversity of brands.

Final inspection of a container



## Extremely versatile with unequalled precision

A new technology now also predestines the HEUFT *FinalView FO* for the precise inspection of the dress of aligned, angular bottles.

Whether a hip flask or a square bottle: high-quality spirits in particular are frequently filled in containers the shapes of which deviate from the norm. They are not round but angular. The HEUFT development team has expanded the range of functions of the HEUFT *FinalView FO* in order to be able to check, even more precisely, that the front and back labels are present, the correct type, properly aligned, intact and that they have a perfect print image. The system now produces six pictures of the sidewall from different

perspectives using superior illumination, camera and image processing technologies of the latest generation. Another detection unit carries out an extensive closure and lid logo inspection. Four of those pin sharp, high-resolution photographs are put together into a 360 degree view afterwards. Minute details of the container dress can be checked in this way with unprecedented precision. The photographs are digitised and passed per Gigabit Ethernet on to the new HEUFT *reflexx<sup>2</sup>* high-performance image processing

system (see the info box on page 2) for evaluation. Therefore round and angular bottles with missing, non-brand, incorrectly positioned, misprinted or damaged labels and closures are reliably identified even along high-speed lines.



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