

technews

BEVERAGES

QUALITY /// SAFETY /// EFFICIENCY



You decide what is good and what is faulty!

No-one knows your quality standards better than you. Therefore the new sidewall inspection for empty bottle crates from HEUFT leaves the final decision to you on how you evaluate an identified object - and remembers your choice permanently.

Is it an unwanted fault, a deviation which can be tolerated or an integral part of the crate design? The operator can determine himself how he assesses a certain characteristic on the high-resolution colour photograph provided by the new sidewall inspection of the HEUFT *LGX* returned case inspection using the touch-screen. The system determines potential faults for this based on different attributes such as the size or

texture and marks them independently on the HEUFT *PILOT* graphical user interface. These markings can be specifically selected by tapping, or alternatively by entering an allocated number, in order to clearly characterise the objects identified in the sidewall picture: if it is an unwanted characteristic a further tap of the finger suffices and the decision to reject the crate in question has been made.

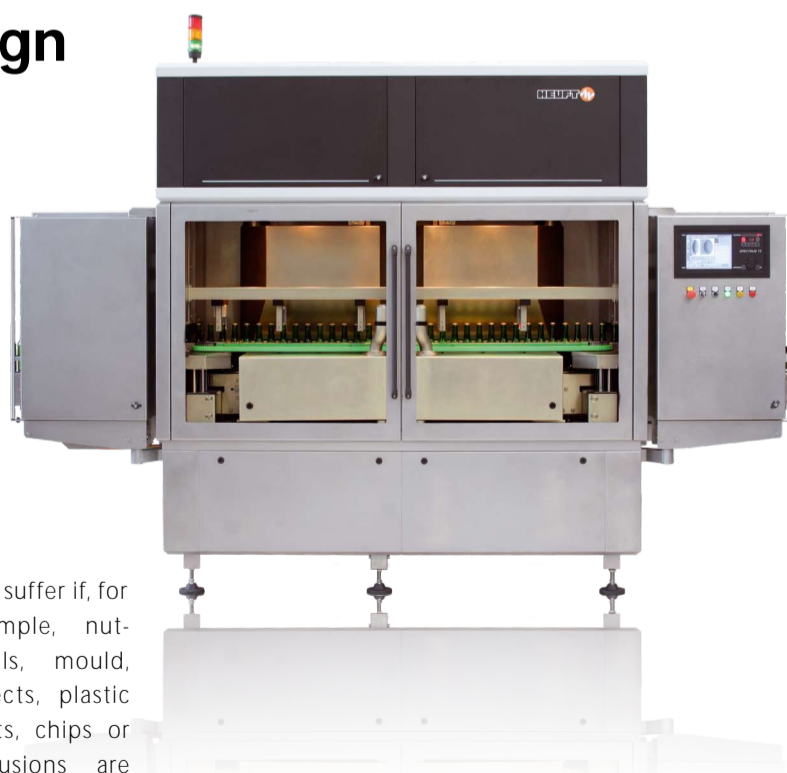
... discover more on page 2

Clear view of foreign objects

Foreign objects which are close to the bottom of a bottle cannot always be detected by means of conventional methods. A new technology for the HEUFT *eXaminer XO* full container inspection now closes this safety gap.

Glass splinters, small pieces of metal, stones and many other high density foreign objects on the bottom of a bottle are detected by the proven, pulsed X-ray technology of the HEUFT *eXaminer XO*. Low density objects which have sunk and damage can also be precisely identified with integrated optical components. However up to now it was thought that certain areas of the base could not be completely inspected. The detection reliability

can suffer if, for example, nutshells, mould, insects, plastic parts, chips or inclusions are covered by the dome or the edge of the base. Therefore HEUFT has perfected the base inspection with the HEUFT *eXaminer XO* in order to get to the bottom of such sources of danger even more deeply. They are reliably tracked down even in the



supposedly "blind" areas of glass and PET bottles filled with beer, mineral water, apple juice and other transparent liquids.

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Innovations for Brau Bevale 2010

Upholding the quality and safety of drinks packaging and its contents and increasing the efficiency of complete filling lines: this is possible with the new and further developments which HEUFT will be showcasing at the Brau Bevale 2010 exhibition (Stand 309 / Hall 5). You can experience the following HEUFT systems, among other things, in action there:

- the HEUFT *SX* for the specific sorting of non-brand returnable bottles
- the HEUFT *InLine* for a precise empty bottle inspection covering the complete container volume
- the HEUFT *VX* for the specific detection of fill level deviations and closure faults as well as the preventive monitoring of filler and closer
- the HEUFT *squeezer QS* for checking filled plastic containers for leaks
- the HEUFT *TORNADO flex* with a camera-based, servo-controlled container alignment for the high-precision application of labels
- the **automatic magazine feed (AMF)** for increasing the label stock of the HEUFT *TORNADO W* labelling machine
- the HEUFT *FinalView FO* for an extensive final container inspection with previously unheard of precision
- the HEUFT *conveyor* for a reliable, careful and quiet transport of up to 72,000 containers per hour
- the HEUFT *beetec* servo direct drive for a high dynamic control characteristic and maximum energy efficiency during the container transport
- the HEUFT *STRATEGY GATE* database server for the central acquisition of operating and production data along a filling line



Perfected code verification

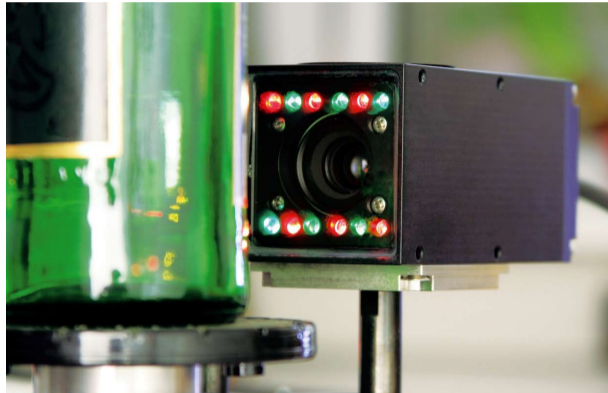
New illumination technology and the latest software extensions improve the performance of the HEUFT *vio* OCR during the specific inline inspection of newly applied product markings. Coding is reliably detected even on curved or reflective surfaces.

Checking best-before dates (BBDs), barcodes and other product markings on curved, highly reflective surfaces such as directly on the bottom of a drinks can presents code readers with their greatest challenges. The latest version of the HEUFT *vio* OCR overcomes these - with a new container illumination and the latest improvements to the HEUFT *reflexx* image processing system.

Homogeneous overall picture

Special multicoloured LED ring strobes are integrated into the new, bell-shaped lighting unit of the camera module. They send out their light at staggered intervals several times in succes-

sion onto the container base. This occurs so fast that the human eye only perceives a single flash. Several high-resolution pictures of the newly coded area are produced



uced in this way which are merged into a homogeneous overall picture in real time by the software. At the same time interfering reflections are compensated for in

the same way as the distortions caused by the curvature of the surface to be inspected. In addition the number of characteristics which can be read increases: up to two line codes can be checked at the same time with the latest version of the HEUFT *vio* OCR even in the high speed section of up to 72,000 individual containers per hour - the detection performance can be further expanded with optional software extensions.

Verification of the correctness of the contents

Not only the presence and readability of product markings are checked in the process. In addition the detec-

Any more questions relating to the topics of final container check and code verification?

Our expert Achim Schwäbig will be pleased to assist you further!



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tion unit, which can be directly integrated into labelling machines, final container check devices and many other HEUFT systems, verifies the correctness of the contents by comparing the read out data with reference values saved in the system. An automatic date adaptation prevents misadjustments when checking the BBD codes. This reduces the false rejection rate to a minimum.

New building 2.0

Everything in quick succession: the 8,000 square metre extension has almost been completed. The new exhibition, training, service and production areas of HEUFT SYSTEMTECHNIK GMBH will be occupied at the turn of the year - and the go-ahead has already been given for another building project.



Two additional production halls will be erected in order to fulfil the soaring demand for HEUFT quality assurance systems for the food, drink and healthcare industries. Important production sectors which were relocated due to an acute shortage of space will be integrated at the HEUFT „Am Wind“ location in Burgbrohl again upon completion of this project. With that the com-

plete development and production process will soon be concentrated in one location again.

A new production hall was already built during the first, in the meantime virtually completed, construction phase. HEUFT is optimally prepared for a successful future with the two which will be added now. The new building not only creates

the best possible conditions for the best possible service to customers as regards production. The "Customer Care & Technical Service" department will also have its own very spacious area there. Furthermore the just completed buildings accommodate the new customer centre, as its centrepiece, with modern conference and training rooms and a 800 square metre showroom.

A large number of the HEUFT systems from all the device families can be experienced in action there at any time - even live tests with customer-specific products, containers and packaging will be possible there.



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