

# technews

English language version // HEUFT SYSTEMTECHNIK GMBH // Newsletter // **drinktec 2013**



## SIMPLY EASY! THE NEXT GENERATION

**The HEUFT SPECTRUM " has arrived! The new generation of modular systems makes the sustainable safeguarding of product quality and line efficiency incomparably precise and simply easy.**

The latest hardware and software, increased computing power, a high degree of automation and a new dimension in user friendliness: the new universal platform for HEUFT systems improves the speed and precision when detecting faults and makes their reliable operation simply easy. The human machine interface (HMI) turns into a machine human interface (MHI) and the device operator into a device user with the new, self-explanatory HEUFT NaVi user guidance. Everyone understands how to use the new HEUFT SPECTRUM " systems! Because there is individual audiovisual support available for this: the user is clearly shown step by step, not only

on the large personalised touchscreen and the respective system components, what has to be done when and where. Additional spoken instructions reduce the risk of unintentional misadjustments with the corresponding consequences for the safety of the product and the efficiency of complete filling lines.

The function and performance range of the systems of the new HEUFT SPECTRUM " generation has been extended again compared with the previous series (see: "The new spectrum of possibilities" – page 2). More computing power and the HEUFT reflexx<sup>2</sup> real-time image processing system ensure maximum detection accuracy – also during high-speed operation. The unique audiovisual user guidance perfects usability. This makes the sustainable safeguarding of product quality and efficiency when filling drinks simply easy!

## CHIEF NAVIGATOR

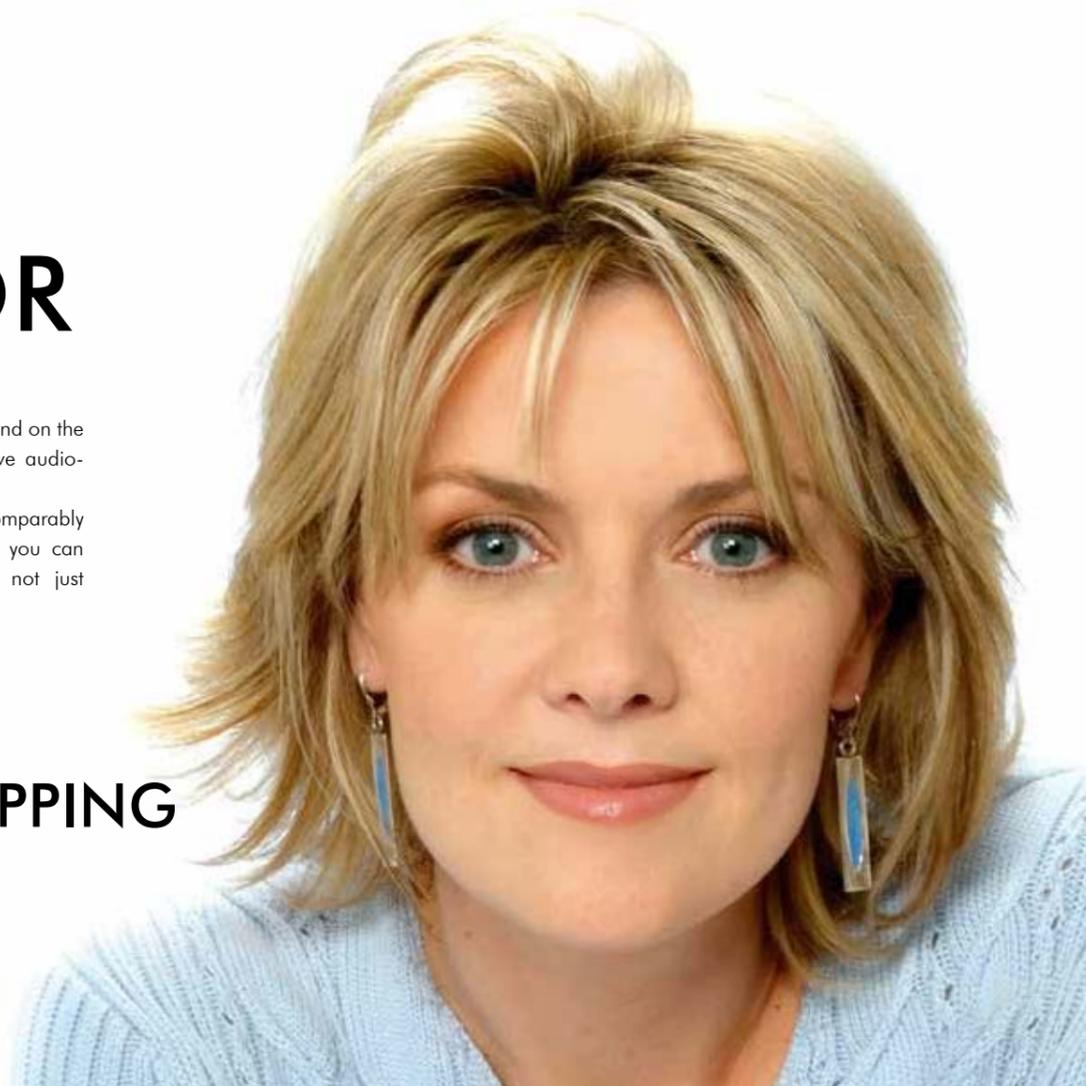
Amanda Tapping makes the reliable operation of the HEUFT SPECTRUM " systems simply easy! She explains their tasks, handling and maintenance in her role as a professional Chief Navigator. For this we have integrated an avatar of the science fiction star in the HEUFT NaVi user guidance. It will guide you step by step through the device functions. No special knowledge is required.

You will find your way around the understandable menu structure of the clear touchscreen user interface intuitively with Amanda's help. She will assist you with important tasks such as brand changes or sampling. She will show you what you have to do and where using HEUFT checkPoints which

light up at the same time on the display and on the device. Therefore she provides extensive audiovisual support.

In-line quality assurance becomes incomparably easy with Amanda. See for yourself: you can experience our new Chief Navigator, not just virtually, on our drinktec stand.

**AMANDA TAPPING**



## THE NEW SPECTRUM OF POSSIBILITIES!

### A COMPLETE OVERVIEW

- large, high resolution touchscreen display
- real-time display of the pictures of all the optical detections for checking the inspection results immediately
- full screen mode for examining the detection pictures in detail
- integrated warning lights for perceiving malfunctions directly

### EASY HANDLING

- self-explanatory audiovisual HEUFT NaVi user guidance
- intuitive touchscreen control
- RFID login with user-related access rights
- automatic vertical and horizontal adjustment of the detection units
- HEUFT checkPoints which light up actively on the display and on the respective components for identifying modules requiring manual adjustment easily

All the cross-system components are accommodated in the universal HEUFT SPECTRUM " control unit. This optimised modular structure enables you to equip your new HEUFT device, later on too, with exactly those modules which you need. Even specific tasks and inspection aims can therefore be easily fulfilled. The basic components for all the systems of the series are the same and therefore the amount of spare parts to be stored has been significantly decreased.

The "head" of the new HEUFT SPECTRUM " systems carries out many more computing steps over the same period than its predecessor due to new CPUs and consistent software improvements so that the number of container characteristics which can be checked at a certain interval increases significantly. A greatly developed degree of automation and the new audiovisual HEUFT NaVi user guidance make the handling of the new systems simply easy.

### PROACTIVE SUPPORT

- quick start guide
- change assistant for easy and fast brand changes
- cleaning and maintenance assistant
- sampling assistant for automatic sampling
- online connection to the HEUFT TeleService for remote diagnosis and maintenance

### SUPERIOR TECHNOLOGY

- continuous container tracking including reject verification
- early identification of serial faults
- test bottle log for checking and documenting the detection performance
- integration option for up to eight rejection systems for a fault-specific rejection
- possibility of incorporating a conveyor control system directly in the device
- future-oriented HEUFT ISI field bus system for easy assembly and retrofitting
- online connection for recording and archiving production data for a specific line analysis



## FILL MANAGEMENT CAN BE SO EASY!

**Product quality and line efficiency: the HEUFT SPECTRUM " VX ensures both at the same time. It combines the optimally proven inspecting and monitoring functions with the advantages of the new HEUFT SPECTRUM " platform. This makes an extensive fill management easier than ever before!**

The HEUFT SPECTRUM " VX checks the fill level, the closures and the labels, among other things, of up to 100,000 containers per hour as a full container inspector. It takes over the monitoring of

the filler and closer as a fill management tool. The modular system combines tried and tested detection units, i.e. for checking the fill level and inspecting the closure, with the new intuitively understandable audiovisual user guidance. Under-filled and overfilled bottles can be identified with this just as easily and precisely as those with missing, incorrectly positioned, faulty or non-brand closures. The HEUFT SPECTRUM " VX constantly monitors all the fill valves and closer heads and provides exact data about their respective performance in order to easily pinpoint the causes of such quality defects.

Malfunctions which result in costly serial faults and high reject rates are identified before they thwart the efficiency and productivity of complete filling lines. The clearly developed degree of automation and the intuitively understandable audiovisual user guidance of the new HEUFT SPECTRUM " platform make the specific identification of quality defects and the continuous monitoring of filler and closer easier than ever before!

## LABEL INSPECTION WITH A NEW LEVEL OF QUALITY

**Taking pictures of perfectly illuminated labels and examining them completely? Inspecting all around the closures of the bottles and checking other quality characteristics at the same time? This can be achieved quite easily and with an unprecedented precision using the new HEUFT FinalView " FO12.**

The high computing power of the new HEUFT SPECTRUM " platform, dynamic LED strobes, a large number of the most up-to-date cameras and the HEUFT reflexx<sup>2</sup> image processing system make a previously unachieved level of quality regarding the inspection of labels a reality: the HEUFT FinalView " FO12 has twelve Gigabit cameras on each of the two levels for the specific examination of body and neck labels alone. As a result the colour pictures put together in real time show the com-

plete circumference of the bottles.

The extremely homogeneous illumination and the narrow viewing angles prevent interfering reflections or insufficiently illuminated areas in which the detection of faults would be impossible. Such effects, which anyone who has ever tried to photograph into a mirror with a flash knows, could not be avoided until now particularly when inspecting glossy labels. But not anymore: the high-resolution, pin sharp colour photographs show the labels completely without any gaps. Therefore even minute deviations are identified with unequalled reliability. In this way the HEUFT FinalView " FO12 also fully meets the high-quality requirements for fashionable individual and high quality premium bottles. Other modules check the presence, design, brand affiliation, position and integrity of shoulder labels and closures just as precisely. Bottles with missing, incorrect, falsely positioned or damaged labels

and lids are clearly detected. The proportion of costly false rejections is minimal. The new HEUFT FinalView " FO12 even detects minute symbols or lettering the colour of which is similar to the respective background. It is additionally equipped with X-ray technology for a concluding fill level detection. The open modular structure of the new HEUFT SPECTRUM " platform makes the integration of further detection modules possible at any time – for example for an internal pressure measurement and a leakage check.

The automatic adaptation of the belt drive and all the detection units ensure fast and easy brand changes – and of course so does the self-explanatory audiovisual HEUFT NaVi user guidance. The bottles can pass through the system close together due to the superior camera and illumination design. Large gaps are just as unnecessary as is a special conveyor or adaptations to the conveyor environment. The FinalView " FO12 sets

completely new standards with regard to detection reliability when inspecting labels and closures – using it is simply easy!



## COMPLETE FULL CONTAINER INSPECTION

The particularly compact HEUFT eXaminer " XOS identifies bits of paper, insects or foil remnants which float about in the product or have sunk to the bottom of a bottle using LED strobes, mirror cabinets which are adjustable by motor and colour cameras. High resolution images are therefore produced which show the whole neck, body and base area completely. Consequently faults on the bottle itself are reliably detected besides low density foreign objects. And that even when the faults are covered by material structures such as embossing - thanks to the HEUFT reflexx<sup>2</sup>.

The new HEUFT eXaminer " XOS detects glass splinters, small pieces of metal, stones and other high density foreign objects on the bottom of the bottle with our pulsed radiometric measuring system. A servo-controlled belt drive ensures a precise rotation. This makes sure that the foreign objects are identified by at least one of the detection units. Thus they can be clearly



seen on the pictures which have been processed and put together using the HEUFT reflexx<sup>2</sup> technology. The new highly efficient HEUFT SPECTRUM "

control unit guarantees that the compact system achieves a new standard of detection reliability, availability and user friendliness in a confined area.



**The HEUFT eXaminer " XOS carries out a complete in-line inspection of full containers using optical and radiometric procedures. The new highly efficient HEUFT SPECTRUM " technology ensures that the detection of low density foreign objects functions just as easily and precisely as that of solid objects - in fact where space is limited.**

## SIMPLY DETECTING MORE!

It defines the state of the art – highly automated with a completely new level of computing power and user friendliness and equipped with X-ray strobes: the HEUFT InLine " IXS makes the complete all-around inspection of empty bottles easier and more precise than ever before! The exactness when detecting glass splinters and chips on the bottom of a bottle opens up new dimensions due to the unique pulsed X-ray technology. A glass in glass detection is even possible when the transparent foreign object is surrounded by residual liquid. For this the HEUFT InLine " IXS produces extremely clear X-ray images without any motion blurs. They are processed and analysed in real time by the HEUFT reflexx<sup>2</sup> just like the detection pictures generated by the proven optical modules. The conveyor belt of the new empty bottle inspector is driven by precisely working servo motors so that the inspection covers the container volume completely. Thus a specifically adjustable



angle of rotation is implemented for each individual type of container; the bottles are correctly positioned and aligned at all the detection units. In addition the servo technology reduces the proportion of components prone to wear and makes product changes particularly fast and easy due to clearly reproducible brand adjustments. The intuitively understandable, audiovisual

HEUFT NaVi user guidance of the first X-ray empty bottle inspector on the basis of the HEUFT SPECTRUM " ensures maximum simplicity and transparency.

**What really distinguishes the HEUFT systems is their consistent modular design. Because of this they can be**



**flexibly equipped, networked with each other without any problems and retrofitted at any time. This is even easier now with the new HEUFT ISI real time field bus system – due to the drastically reduced amount of wiring required.**

Whether assembling HEUFT devices, integrating spatially separated components or subsequently extending their range of functions: sensors and actuators such as photocells, jam switches, measuring bridges or rejectors can be incorporated quickly and easily with the isochronous serial interface. They no longer have to be directly

wired to the corresponding device by means of innumerable single wires. In fact they are simply connected to local bus couplers which are assembled in their close proximity. From there only a single four-wire bus line leads to the central CPU. It has such a high transmission capacity that it can replace 6,000 individual signal lines. This reduces the amount of work required for installation.

The HEUFT ISI carries out the communication between the control level and the sensor / actuator level dynamically via clearly addressed data packets. Input signals and control commands are available everywhere throughout the complete

system where they are needed in a 0.5 milli-second cycle. Even time-critical tasks, such as a specific container tracking in high-speed lines, are therefore fulfilled promptly and reliably. Also possible: the integration of a conveyor control system directly in the device. As a result a corresponding stand-alone system for regulating the conveyors in its environment is unnecessary – the HEUFT beetec systems as well as the frequency converters of other manufacturers' drives are directly activated. The HEUFT prime and all the new HEUFT SPECTRUM " systems are already equipped with the HEUFT ISI field bus.

## FLASHING INSTEAD OF SCANNING!

The pulsed X-ray technology which is in the HEUFT InLine " IXS as well as the HEUFT eXaminer " XOS is precise and careful at the same time: in contrast to the classic line scanner it only emits X-rays when there is really a bottle to be inspected in the inspection area

and that in the form of an X-ray flash which only lasts a thousandth of a second. This extremely short exposure time prevents motion blurs on the high resolution X-ray images. In addition it reduces the average radiation exposure by a factor of 100 compared with X-ray scanners. For

example such an X-ray strobe only emits radiation for 36 seconds when screening 36,000 bottles in one hour. Therefore there is no emission whatsoever during 99% of this period. On the other hand conventional X-ray devices emit radiation continuously for 60 minutes. HEUFT X-ray sys-

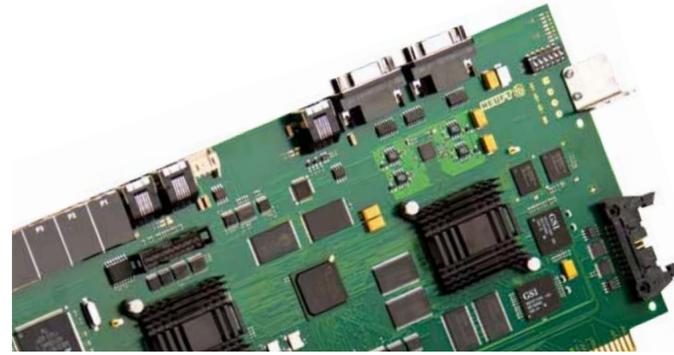
tems neither have to be switched off nor emptied during production stops; there is no danger of the containers being subjected to excessive radiation.

# SIMPLY EASY!

## THE NEW DIMENSION IN DETECTION RELIABILITY

Good or bad? Tolerable or completely unacceptable? The choice is yours on how you wish to assess a characteristic which was identified during the quality inspection. Because the HEUFT reflex<sup>2</sup> high-performance image processing system, which is in all the HEUFT SPECTRUM<sup>11</sup> systems equipped with optical modules, now also provides the option to classify objects completely individually in addition to their specific detection. You can select them on the high-resolution, undistorted colour pictures by means of the touch-screen and characterise them as integral design elements, acceptable anomalies or unwanted faults. Therefore your system learns your specific quality requirements and knows from then on

whether the respective product fulfils them or not. In addition to this teaching in process the latest generation of the in-house developed hardware and software for the real time combination and analysis of detection pictures is impressive due to a faster picture transmission and a clear advantage in terms of computing power, resolution, colour depth and contrast. The result: a new dimension in detection reliability with a false rejection rate which is in the tenth of a percent range and significantly lower! The function for automatically saving all the detection pictures is new too. It sets new standards with regard to traceability and documentation.



## SIMPLY REJECTING RELIABLY

Quiet, clean, economical and almost non-wearing: the new HEUFT e-mono rejector manages completely without expensive, noise and filter intensive compressed air. The compact system, driven by a completely in-house developed electric motor, only uses energy precisely when its rejection segment is extended in order to transport faulty bottles onto a parallel lane or into a bin. Its energy expenditure is zero when it retracts and

when it is in the idle position! The HEUFT e-mono can adapt the force to the weight of the packaging during the rejection due to a particularly flexible control unit. Therefore containers which are filled differently can each be rejected the same distance. It has a very low noise emission. Minimal frictional losses make the system which is dust tight and protected against water jets (IP65) virtually non-wearing. The result:

a particularly long service life and practically no maintenance required. Connecting the rejection system is easy and fast too. Only two cables are needed for this: one for the power supply and one to the bus coupler of the HEUFT ISI (see page 3). The complicated integration of power electronics, such as frequency converters, is unnecessary. The HEUFT e-mono is the perfect alternative par-

ticularly where a compressed air connection is not available. Furthermore it is the first choice for integration in hygienically sensitive areas because there is no outgoing air whatsoever. The new development which has been designed for a line speed of 72,000 bottles per hour still has upward output reserves.

## A NEW TECHNICAL DIRECTOR



New addition to HEUFT: Tilman Kerstiens has reinforced the management of the continuously growing group of companies as Technical Director since the beginning of August. He has many years of practical experience with regard to quality assurance when filling drinks. After all the graduate engineer was responsible for technology and quality control over the past 25 years first as the technical director and then as the managing director of the renowned Tönissteiner Sprudel Dr. C. Kerstiens GmbH. He is now in charge of production, company organisation, quality management, quality assurance,

customer care and service at HEUFT. The long-standing chairman of the Technical Committee of the "Verband Deutscher Mineralbrunnen e.V." (VDM - the Association of German Mineral Water Producers) sees the main focus of his work in providing customers with a comprehensive service. His leadership skills and above all his profound experience from the customer's point of view is not only a real benefit for HEUFT but also for all the clients of the technological leader. Those who do not know Mr Kerstiens yet can meet him personally here at the drinktec exhibition: Hall B4 / Stand 315.

## THREE QUESTIONS FOR ... TILMAN KERSTIENS

**Mr Kerstiens – how do you define quality?**

"Quality is when the customer comes back."

**How do you assess the performance of our technologies and your previous cooperation with HEUFT?**

"I can confirm the outstanding performance of our systems as a long-standing and satisfied customer and now as a proud employee of the HEUFT group of companies. Furthermore we always received good support at the Tönissteiner Sprudel company - HEUFT is more than a supplier, HEUFT is a partner!"

**Your special focus is on an extensive service. Why is that so important?**

"Every line standstill costs money. This can be compared to an aeroplane which only earns money for you when it is in the air. Therefore when providing a service it should not make a difference



whether you are five or 500 kilometres away. We always have to be globally available."



## NOT QUITE TIGHT?

**The HEUFT squeezer QS safeguards the microbial purity of dairy drinks and other sensitive beverages by identifying leaking plastic bottles whilst still on the filling line and removing them. The system adapts itself independently to the changed container format for a fast and easy brand change.**

The HEUFT squeezer QS measures the internal pressure of filled bottles made of HDPE or PET and carries out a comparative fill level detection in a compressed and non-compressed condition in order to check their tightness. For this an integrated belt drive exerts a precisely controlled amount of pressure on the containers. The internal pressure increases at first in the course of this but then decreases again if they leak because air escapes. The fill level rises at the same time. The

results of the two measurements are correlated to one another. Minute leaks, stress cracks, leaking closures as well as incorrectly sealed closure foils, which can cause the product to spoil prematurely, are therefore safely detected. Optical technologies identify screw closures with leaks. The system removes the bottles in question directly. The belt drive in the HEUFT squeezer QS is servo-controlled for a fast and simple brand change; its height and passage width as well as the position of the modules for the fill level and closure detection are adjusted fully automatically and adapted to the changed bottle format. This practically rules out misadjustments.

## THINGS ARE LOOKING UP!

**High demands, an increasing number of employees and new building plans: HEUFT continues to grow!**

The order books are well filled. Production is running at full capacity. And thousands of visitors come to our Customer Center every year in order to receive objective enlightenment about the possibilities and limitations regarding the in-line quality assurance of product and packaging as well as revealing insights into the technology of our superior systems. The prospects that this striking trend will continue to have a positive effect on the development of the business are promising. This high demand has an impact on the global number of employees: the magic 1000 barrier was recently broken – we now employ more than 600 skilled employees alone at our head office

in Burgbrohl. As a result there is also an increase in the amount of space required: the production department is already approaching its capacity limits again despite three production halls which were only added two years ago. This also applies to the spacious service, training and exhibition areas in the HEUFT Customer Center. Therefore new expansion plans are already in the pipeline. The premises covering 22,000 square metres at the "Am Wind" location are to be increased significantly. Therefore the conditions will soon be even better there for the development and production of innovative solutions and a comprehensive service for customers. You would like to gain new insights and examine superior checking, inspecting and labelling systems in detail during operation? Then simply make a personal appointment to visit us: [welcomed@heuft.com](mailto:welcomed@heuft.com), +49 2636 / 56-0.



## EMPTY CAN INSPECTION AT HIGH SPEED

**Removing faulty empty cans before they can thwart the productivity of the complete filling line and jeopardize the safety of the final product: this also functions on high-speed lines with the latest version of the HEUFT canLine.**

The compact system now checks the quality characteristics of up to 144,000 empty cans per hour due to the new HEUFT reflex<sup>2</sup> high-performance image processing system and current software enhancements. Misshapen or faulty flanged edges, which could lead to the practical beverage packaging not being sealed safely or at all and can cause productivity losses due to closer obstructions, are reliably detected.

This also applies to dents, bumps and dirt on the inner sidewalls and foreign objects on the base of the container. The HEUFT canLine achieves its impressive detection accuracy with an LED illumination without reflections or shadows and only one single camera. It photographs the complete finish, inner wall and base area from above. The optics system has such a depth of field that minute faults become clearly visible in the high-resolution images.



# SIMPLY EASY!

MARKUS MÜLLER  
Product Manager Labelling Technology  
HEUFT SYSTEMTECHNIK GMBH



"The ever growing variety in beverage packaging and equipment variants demands compact and flexible labelling machines with a high degree of automation which carry out a high-precision application of different types of labels as well as fast, personnel and resource saving changeovers. Our servo labellers fulfil this requirements profile optimally."

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## PRECISE, FLEXIBLE AND EFFICIENT

**First-class labelling results due to a fine alignment of the bottles with millimetre accuracy, particularly easy brand and format changes and considerably less wear and tear: the servo labelling machines of the HEUFT TORNADO flex series achieve a maximum amount of precision, flexibility and profitability during the application of labels.**

Applying labels exactly where they belong: the HEUFT TORNADO flex machines manage this due to the integrated servo technology! A servo-controlled belt drive adjusts the specific rotating speed of the respective bottles exactly for an accurate wrap-around labelling. Servo-controlled rotating platforms carry out a non-contact fine adjustment with millimetre accuracy when applying wet glue and self-adhesive labels. Typical characteristics such as closures, embossing and even hairline mould seams are detected by camera and used as alignment marks. Therefore the labels end up exactly where they belong in each case. False positioning is virtually excluded. Servo technology is also in the dispensing head of the units for self-adhesive labelling in order to ensure a high precision distribution of the labels from the roll.

The labelling machines of the HEUFT TORNADO flex series show their true strengths where bottles with different formats are processed. Very specific rotating cams are required depending on the respective container diameter in order to ensure clean labelling without creases. The complex mechanical replacement of the individual

cam segments is not necessary due to the servo technology. Therefore program changes are carried out within a very short time. Furthermore the servo labeller provides a maximum amount of flexibility and efficiency: it is not necessary to replace the rotating cam completely and to commission all the brands again when adding an additional equipment variant i.e. a newly introduced wrap-around label on the bottle neck. It suffices completely to extend the new brand and to program the rotating curve

accordingly. The servos themselves are extremely economical. Because they manage completely without gears and have lifetime lubricated bearings. This makes them practically non-wearing. HEUFT will be showcasing a servo labeller from the HEUFT TORNADO flex series, equipped with a hot glue unit for wrap-around labelling and a self-adhesive labelling station, at the drinktec exhibition.



## SUPPLIES ARE TAKEN CARE OF!



**Preventing cost-intensive standstills and saving human resources: this is also possible with the automatic magazine feed (AMF) for the HEUFT TORNADO W when wet glue labelling.**

The add-on module increases the label stock and minimises the need for manual intervention. For this a special supply table is assembled at the labelling station which provides room for several refill magazines. When the active magazine is empty it is transported to a removal station and a full one moves up automatically. There is a small label reservoir at the head of the labelling station to bridge the gap so that the labelling

process does not need to be interrupted during the change. The HEUFT TORNADO W can be operated continuously for a longer period of time with the AMF. It only has to be checked from time to time whether there are still sufficient refill magazines on the supply table. A special sensor system, the signals of which are displayed on the graphical user interface of the wet glue labeller, provides valuable support in the course of this. The personnel benefits from increased flexibility and less time involved when handling the machine and the management from high operating reliability and considerably less standstills.

## INCREASED DRIVING FORCE!

Powerful drive especially for multi-lane conveyors: the newly developed variant of the energy-efficient HEUFT beetec has a torque of 200 Nm which is more than four times as high. The rated speed is 70 revolutions per minute. This makes it possible to also drive multi-lane conveyors, which are slower than single-lane conveyors but need considerably more power, with high control dynamics – for example a multi-chain conveyor with over 1,000 full bottles at a conveyor speed of 0.2 metres per second. The complete control electronics as well as the encoder for accurately determining the position of the bottles are already integrated in the compact, totally encapsulated casing of the system

with lifetime lubrication from the outset. The Safe Torque Off (STO) function prevents an unwanted start-up of the drive in the event of an emergency stop. The torque forming energy is available again afterwards at lightning speed. HEUFT beetecs can communicate with each other as well as with higher-level control units in order to harmonise different conveyor areas. An Ethernet based control signal transmission is possible when networked in a daisy chain. Local triggers and signals can also be integrated in a straightforward way. Consequently gaps, jams and other interference to the bottle flow can be identified immediately and corrected in real time. A firewall protected Ethernet connection to local

networks also makes the control and performance analysis of the intelligent drives possible outside the production line. The experts of the HEUFT TeleService can also access the device upon the customer's request via a secure Internet connection. All types of information and the complete energy supply is transmitted via one single cable loom which connects the individual drives to each other in a network. This reduces the time and effort when installing highly efficient HEUFT beetec drives considerably.



# SIMPLY ALWAYS THERE FOR YOU!

**Our global technical service is available around the clock, day in day out.**

Those who decide in favour of a HEUFT system can depend on its long-term availability. Integrated tutorials and assistants provide valuable help for self-help in the rare event of a malfunction. The Technical Service is there for you if more support is required – 24 hours a day, seven days a week with immediate effect! For this we have reorganised our on-call duty and extended it even further. You will always be able to contact the experts responsible for your HEUFT location, on working days during the usual working hours, who will help you competently in your own language. Your call will be passed on automatically to experienced service technicians in Germany, China or the USA if the subsidiary happens to be closed or busy. This guarantees that support is available on weekdays in English and German at all times. The newly set up 24 hour on-call duty at our head office in Burgbrohl is at your service should you require help at weekends. Intensive advice can also be obtained here regarding very specific technical questions if needed. The HEUFT TeleService can be activated from

your device at any time for online remote diagnosis and maintenance. Assistance will always be given in your own language due to the multi-lingual user interface of our systems: for example the service technicians at the other end of the protected Internet connection can see the German user guidance for your inspector and you the English. Therefore they can support you without hindrance and pinpoint faults and eliminate them directly with you. Therefore those who have Internet access in the bottling hall do not even have to call the telephone service hotline in many cases. However if this is still necessary you can be sure that you will not be connected to a clueless call centre agent: you will always reach a qualified HEUFT technician with experience in the field and state of the art know-how directly at domestic telephone rates. Consequently every customer receives extensive support – the problem is either solved directly or we will organise a prompt service visit to your premises. Customers who decide on a special support contract also benefit from prioritisation and special conditions regarding the service language and payment process among other things. Either way: the HEUFT service team with its reor-

ganised and considerably extended on-call duty is really always there for you - around the clock, day in day out!

BENJAMIN DECKER  
Service Engineer Remote Service  
HEUFT SYSTEMTECHNIK GMBH



"We guarantee active support for our customers at all times with the extension to the on-call duty of our service hotline."

Email: Benjamin.Decker@heuft.com  
Phone: +49 2636 / 56 2180

## INCREASING EFFICIENCY AND BOOSTING OUTPUT

**A highly efficient tool is needed for specific production data acquisition (PDA) and precise line analysis by those who wish to significantly increase the efficiency and output of complete drinks filling lines: the HEUFT PROFILER advanced.**

The best possible comparability is a basic prerequisite for sustainable operative controlling and maximum productivity when filling drinks. The server-based HEUFT PROFILER advanced with integrated SQL database for automatically storing data creates this and carries out a uniform and objective calculation of the line efficiency. The PDA tool, which can be integrated into exist-

ing ERP systems without a problem, informs about the operating state of all the machines and devices of a filling line linked in a network in real time and provides, among other things, important production and consumption statistics, freely configurable reports as well as detailed key figures concerning individual batches. In addition information regarding the overall equipment effectiveness (OEE) is provided. The integrated HACCP limit value monitoring makes a comprehensive quality management possible. The HEUFT PROFILER advanced provides a clear overview of the daily, monthly or annual production and makes preventive maintenance the norm: causes of disturbances which adversely affect

line performance or endanger product safety are identified immediately. Therefore they can be rectified before they result in long standstills, costly production stops or even the total failure of complete lines. Using the HEUFT PROFILER advanced can considerably increase output particularly along a line which is running at its capacity limits: double-digit percentage increases in efficiency are not unusual. And even a slight rise in line efficiency, considered over a period of time, causes a considerable increase in added value.

## INSPECTING INSTEAD OF WEIGHING!

**Whether tray, case or cardboard box: the HEUFT VGX checks the completeness and integrity of the contents as well as the appearance of the outer packaging for bottles.**

Safety and quality defects can be all too easily overlooked when relying on weighing systems as a final check for newly packed full cases. For example burst bottles inside a sealed cardboard box for drinks often cannot be detected just on the basis of a weight check. Because the escaping liquid remains in the outer packaging or only gradually seeps into the cardboard – this does not change the total weight to begin with. The HEUFT VGX is clearly at an advantage in this case because it even detects broken bottles in card-

board boxes which are sealed all around - and many other faults which cannot be found by scales. The end of line system checks the completeness of the bottles in the case and also identifies those which are underfilled, not correctly closed or faulty using infrared, induction and X-ray technology. In addition it carries out a non-contact examination of the outer appearance of trays, cases and cardboard boxes using ultrasonic sensors and special cameras. Therefore deformations, raised cardboard box flaps as well as non-brand logos and product markings are reliably detected. The HEUFT VGX automatically sorts out cases with full containers which do not comply with quality specifications. Therefore it accomplishes considerably more than conventional weighing systems.



# SIMPLY EASY!

## SIMPLY KNOWING WHERE TO GO!

700 square metres, more than twenty systems live and in action as well as groundbreaking innovations: there is a great deal to experience on the drinktec stand of HEUFT SYSTEMTECHNIK GMBH (315 / Hall B4). We have provided you with an overview here in order to make it easy to find what you are looking for: from an empty bottle sorting unit to a full container inspection, from a proven solution to a new cutting edge development.

- 1) HEUFT *InLine* – empty bottle inspection
- 2) HEUFT *conveyor* – container transport
- 3) HEUFT *XY* – laning system
- 4) HEUFT *streamer C* – corner combiner
- 5) HEUFT *synchron TX* – conveyor control system
- 6) HEUFT *FinalView "FO12"* – final check for containers
- 7) HEUFT *InLine "IXS"* – empty bottle inspection
- 8) HEUFT *SX* – bottle sorting unit
- 9) HEUFT *FinalView FO* – final check for containers
- 10) HEUFT *VX* – fill management
- 11) HEUFT *eXaminer "XOS"* – foreign object inspection
- 12) HEUFT *canLine* – empty can inspection
- 13) HEUFT *prime* – full container check
- 14) HEUFT *SPECTRUM "VX"* – full container inspection
- 15) HEUFT *beetec* – conveyor drive
- 16) HEUFT *squeezer QS* – leakage check
- 17) HEUFT *LGX* – returned crate inspection, inside
- 18) HEUFT *LGX* – empty case inspection, sidewall
- 19) HEUFT *VGX* – full case inspection
- 20) HEUFT *TORNADO flex* – servo labelling machine
- 21) HEUFT *PROFILER advanced* – PDA / line analysis



## FALSE REJECTIONS ARE FAULTS AND COST REAL MONEY!

Have you looked for the fault with the magnifying glass available here on the HEUFT stand and nevertheless not found it? No wonder! Because in fact the bottle pictured does not have any faults! It would be a fault to reject it.

To be exact "simply detecting more" also means clearly differentiating between saleable beverage packaging and that with real safety and quality defects and ensuring that the former is not wrongly

removed from the production flow.

Because false rejections are main cost drivers. Furthermore they seriously reduce line efficiency and therefore the productivity of entire filling plants if they occur too frequently. The expensive beverage packaging ends up in the bin – at worst together with its valuable contents. Do not buy costs!

Inform yourself: we at HEUFT will reveal the

advantages and disadvantages of different detection technologies.

Make use of our offer of participating in basic seminars in order to make the right decision!



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