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Less noise in the bottling hall

HEUFT has the necessary technological know-how in order to reduce the noise level in your bottling hall and at the same time increase its efficiency.

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Even tracking down minute leaks

HEUFT has developed a fully automatic leakage check with an extremely high detection accuracy in order to identify microscopically small leaks in plastic containers with particularly sensitive contents.

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Final container inspection with previously unheard of precision

HEUFT has integrated the most up-to-date illumination, camera and picture analysis technologies in the new HEUFT *FinalView FO* in order to satisfy the highest quality demands when inspecting labels and closures.

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HEUFT know-how always at your side

HEUFT has merged the Customer Desk and the Technical Service Department in order to further increase our response times and competence for an optimal service to customers.

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Body and back labelling with only one unit

A world first: the particularly compact HEUFT *TORNADO D flex* applies two self-adhesive labels at the same time with one unit. The compact system has been equipped with the latest technologies which identify moulding seams reliably and use them for a servo-controlled alignment of the containers in order that this is achieved particularly accurately.

The HEUFT *TORNADO D flex* applies two labels (e.g. a body label and a back label) alternately with one single labelling unit and specially constructed guide starwheels. For this the containers pass through the bottle carousel twice. The containers move on to the next circuit when the self-adhesive labels have been applied on one side. For this they are passed to the infeed starwheel again via a

transfer starwheel. New containers enter at the same time. The containers which have been labelled on one side are rotated and the second self-adhesive label is applied. They leave the bottle carousel afterwards with labels on both sides whereas the second throughput starts for the adjacent containers.

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New building project

More room for innovations

HEUFT extends: a new building of 8,000 square metres will extend our exhibition, production, service and training areas greatly. Among other things there will be a modern customer centre with a spacious showroom where all the HEUFT technologies can be seen live.



The new customer centre is the heart of the building project which has already been given the go-ahead. An exhibition area of more than 800 square metres will be built in addition to optimally equipped conference rooms. Our visitors will be able to

New finish detection



The HEUFT *InLine* detects finish and sidewall faults even more precisely now. The latest model of the empty bottle inspector inspects the container finish three times ...

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HEUFT *beetec*

As brisk and busy as bees: HEUFT SYSTEMTECHNIK GMBH are showcasing the HEUFT *beetec*, a servo



direct drive for conveyors in the intensive control and aseptic areas, at the drinktec 2009 exhibition as an absolute world first ...

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EDITORIAL

Dear Reader,

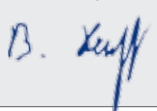
HEUFT SYSTEMTECHNIK GMBH will do justice to its reputation as the technological leader in the quality inspection and quality assurance sectors for all types of containers again at drinktec 2009 to an extremely high degree. We claim to exceed your expectations and to set standards with the very latest new and further developments.

In the course of this we have been consistently relying on system technology for thirty years now: our wide-ranging, modularly assembled product palette generates tailor-made solutions which fulfil your individual requirements and wishes precisely. From research, development and intelligent project planning, via production, installation and commissioning to an extensive worldwide service: HEUFT has more to offer!

We owe this to the know-how of our employees in particular. A large proportion of them work exclusively on pure research and development. Flat hierarchies ensure that the latest discoveries are quickly converted into forward-looking products which are in line with market requirements.

You can examine the results in detail on our exhibition stand. Our update, which you are now holding in your hands, provides additional information. I hope that you will find the reading matter informative!

Yours faithfully


(Bernhard Heuft)

IMPRINT

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HEUFT *beetec*

With an intelligent drive into the future

As brisk and busy as bees: HEUFT SYSTEMTECHNIK GMBH is showcasing the HEUFT *beetec*, a servo direct drive for conveyors in the intensive control and aseptic areas, at the drinktec 2009 exhibition as an absolute world first. The particularly hygiene-friendly construction uses up to 30 percent less energy than conventional drive systems. Therefore it shows the way to an energy-efficient container transport of the future.

The new development is a busy bee in its own rights. The integrated servo control accelerates the conveyors within fractions of a second and if required decelerates them just as quickly again. However the HEUFT *beetec* works even more efficiently when networked: organised and in tune with each other in the same way as a bee colony the linked direct drives achieve a particularly dynamic characteristic of a control system with maximum speed precision and minimum energy consumption by means of the daisy chain system.

The in-house developed servomotors in the HEUFT *beetec* manage completely without gears: frictional losses are eliminated and the energy used is converted into movement directly and highly efficiently. Its energy demand is less anyway compared with conventional three-phase asynchronous motors because it is permanently magnetised. The braking energy is not wasted either. It is recovered and fed in again in the same way as in KERS in Formula One. The conveyors

which are networked among each other are adjusted extremely promptly, precisely, harmoniously and efficiently in an interaction of servo technology, on-board conveyor control, Ethernet based control signal transmission and the coupling of local triggers and signals.

A fan can be searched for in the HEUFT *beetec* direct drive in vain. A germ environment has no

change of forming. The new development, which is completely encapsulated, without cooling fins, without an opening towards the outside and with a casing with a smooth surface, fulfils all the requirements for an optimal hygienic design and can therefore also be used along aseptic filling lines. Encoders for external devices are just as integrated as is a closed lifetime lubrication system. Therefore oil changes are a thing of the past and the amount of maintenance required approaches the zero level. Whether power supply, encoder or Ethernet for a full online communication including remote service right up to the motor: a single cable transfers the energy as well as all the types of information. This makes it particularly easy and straightforward to install and commission the servo-controlled direct drive. The HEUFT *beetec* with integrated energy-saving servomotors without gears and the most up-to-date communication technology has what it takes to revolutionise the drive system of container transport systems in intensive control and aseptic areas. A fast response time, its hygiene and last but not least its forward-looking energy balance make it a worthwhile investment with impressive favourable life cycle costs - as brisk and busy as a bee and efficient as a complete bee colony.



Body and back labelling with only one unit

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There are two different labels in one unit which are dispensed alternately so that the 2-in-1 labelling is always carried out perfectly. The newly developed integrated moulding seam detection makes the highest level of precision during the application possible. Moulding seams are reliably identified using a combination of the most up-to-date camera technology and highly efficient picture evaluation software and used as alignment marks for the servo-controlled container alignment.



camera technology can be used for different inspection procedures. Furthermore the machine has enough room in order to integrate additional modules for an extensive final check of containers which are particularly extensively equipped - for example to check the quality and the position of the newly applied labels and closure or to also check the BBD, barcode and fill level.

The fact that the HEUFT *TORNADO D flex* manages with only one unit not only reduces its acqui-

Markus Müller
Qualified engineer



Product manager for labelling technology



"Staying in front in the labelling sector means more than just applying glue. We provide labelling systems which can do more. They combine product equipment technologies which point the way with the high standard of the HEUFT inspection technology in one and the same machine. You too can take advantage of them."

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The HEUFT TORNADO D flex is a world first which brings a fresh wind to the market. Space-saving, cost-effective and low-maintenance it is ideally suitable for the 2-in-1 labelling of premium bottles.

The HEUFT *TORNADO D flex* is the ideal solution particularly for filling lines where space is restricted and a system for applying self-adhesive labels should be accommodated in addition to the existing wet glue labeller - for example for labelling high-quality premium bottles. Because it has a very compact construction and can be integrated into existing lines without a problem. The system is extremely space-saving because the path necessary for rotating the containers and applying the labels is available twice. Another advantage of the double throughput: the already integrated

sition and operating costs but also its maintenance costs. The superior camera and picture analysis technology for detecting moulding seams make mechanical alignment marks on the container unnecessary and effectively prevent the formation of bubbles which can occur when self-adhesive labels are placed directly on such a seam. This new development achieves a maximum output of 27,000 containers per hour in the case of the 2-in-1 labelling. Another unit can be integrated in order to guarantee non-stop operation. Downtimes during roll changes cease to exist as

a result so that a 2-in-1 labelling process is possible round the clock with two instead of four units. Furthermore it is possible to integrate other stations in order to not only label the body and back of a container in a single work process but other areas as well. This technology for which a patent has been taken out is an absolute world first. The HEUFT *TORNADO D flex* which is particularly space-saving, cost-effective and low-maintenance brings a fresh wind to the market.



Original photograph of a glass chip.



The same photograph with the outlines of the masks.

New finish detection

Perfected empty bottle inspection

The HEUFT *InLine* detects finish and sidewall faults even more clearly now. The latest model of the empty bottle inspector inspects the container finish three times straight away and therefore avoids false rejections even more effectively. It sets new standards for the quality control of containers before filling in conjunction with a fourfold sidewall inspection and many other functions.

The perfected HEUFT *InLine* examines the critical finish areas of empty containers even more thoroughly now: three different-coloured rings

Even the smallest cracks which could later result in chips are identified in this way. This guarantees a very high degree of product safety and at the same time saves the costs which arise when a good container is inadvertently identified as being faulty and disposed of afterwards.

The further developed fourfold sidewall inspection which is accommodated in the particularly compact casing of the tried and tested empty bottle inspector also detects glass faults, foreign objects and contamination considerably more precisely: two cameras take photographs of the opposite sides of a container first. This is then rotated by 90 degrees and two photographs



The HEUFT *InLine* checks the container finish three times straight away. The result: the detection accuracy is increased and false rejections are prevented even more effectively.

of light are projected from above onto the bottle opening instead of one. Their reflections are specifically analysed. It could be a chip on the ring surface or in the inner or underchip area if one of them has been interrupted which puts the integrity of the product and the health of the consumer at risk. An interaction of high-resolution camera and precise image processing techniques clarifies whether this is really the case or whether it is simply harmless signs of wear.

are taken of the opposite sides. Above all faults relating to frosted glass bottles and containers with special shapes or glass structures are tracked down particularly reliably in this way. Angular containers can be inspected in addition to round containers with one and the same device. In addition to the perfected finish and sidewall inspection the new HEUFT *InLine* model provides proven functions for inspecting the base and thread as well technologies for the

Martina Stirner
Qualified engineer



Product manager for empty bottle inspections and camera systems



"Inspecting and sorting technology which is technically mature and easy

to integrate is indispensable for maximum product safety and an optimal production process. We provide safeguarding systems of the highest technical standards which fulfil these requirements optimally."

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specific detection of residual liquid, mineral and rust rings.

The current improvements to the highly efficient HEUFT *reflexx* technology for image processing set new standards as regards the inspection of empty bottles: faults such as stress cracks can be tracked down even more reliably now - even in difficult areas such as in the container base or behind material structures (e.g. knurling). This reduces the false rejection rate again considerably and therefore increases the efficiency



of the complete filling line. Additional further developments to the construction make it easier to clean the device and minimise wear and tear. This reduces maintenance costs.

Quiet and efficient container transport

Less noise in the bottling hall

Hardness of hearing relating to noise is the most common occupational disease. 6,000 incidents every year in Germany alone speak for themselves. HEUFT offers innovative solutions which reduce the noise level in the bottling hall with lasting effect and at the same time increase the efficiency of the line.

Effective noise protection is an important issue at present particularly for the companies of the European beverage and bottling industry. Because stricter limits will apply in the EU at the end of 2009. The new machinery directive 2006/42/EC which comes into effect on 29 December stipulates that the airborne noise emission value of machines must not exceed 80 dB (A) - this was 85 dB (A) previously. These requirements can only be realised in the case of systems where noise protection was already taken into consideration during the development and construction stages.

Because according to experts the greatest noise reduction effect, almost 60 percent of the total of that which can be achieved in the bottling hall, is obtained during this phase.

HEUFT supplies systems which are in line with the latest technological developments as regards noise protection. They ensure among other things that the loud clinking of colliding bottles finally belongs to the past due to the intelligent HEUFT conveyor mechanics and control system. This protects ears, the packaging, the product and the maintenance budget.



Quiet gap closing with the HEUFT *synchron*

The best example: the HEUFT *synchron* conveyor regulation system. It reacts directly to container rejections in order to achieve a continuous and therefore quieter bottle flow. It looks at a complete control range constantly and determines the necessary conveyor speeds in real time. In addition it monitors the bottles in the infeed and outfeed and closes gaps in the bottle flow quietly and gently. The conveyor speed is always adapted to the lowest possible speed automatically. At the same time decelerating and accelerating is so smooth that the bottles cannot collide. The result: less wear and tear



to the containers and the conveyor systems, a clear increase to the efficiency of the complete

line and at the same time a dramatic reduction to the noise level.

Smooth transition with the HEUFT *line-up* and the HEUFT *relax*



Jammed bottles at the transition from the mass transportation to the single lanes before the packer also cause noise which is damaging to health. The HEUFT *line-up* laning system puts things right. Special sensors detect potential jammed bottles and countersteer these in time with a controlled oscillation of the guide rails.

The HEUFT *relax* container fanning out system makes an effective noise reduction in a simple way possible. It gently spreads the containers from a single-lane transport onto the mass conveyor. No pressure, no wear and tear, less

scuffing and above all considerably less noise are the result. One of the many successful installations of this solution at a large brewery in Southern Germany is proof of this: the noise level was between 95 and 96 dB (A) before the installation and a normal conversation was possible in the same place afterwards.

HEUFT makes an important contribution for effective noise protection during the production of food and drinks with this and many other systems.

Harald Ax

Product manager for conveyor systems and line control



"You wish to reduce the noise level in your bottling hall and at the same time increase line efficiency? Then the time has come for an intelligent conveyor control solution from HEUFT. I would be pleased to advise you."

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Checking carton packages

All leaks fly out!



The HEUFT *pakCheck* is a leakage and closure check especially for carton packages. It analyses the fill height and the tightness of the containers, examines their closures and checks the best-before date (BBD) by means of code reading in a single work process.

Particularly sensitive products such as fruit juices or milk are increasingly being filled into carton packages. Such containers have to be completely tight and well closed so that the contents do not spoil. The new HEUFT *pakCheck* checks



whether this is the case and therefore safeguards the product quality with a lasting effect. The leakage check detects leaks with a high level of precision. For this several optical sensors measure the carton packages without touching them in any way and regardless of their respective alignment whilst passing on the conveyor. Their dimensions change if they have a leak. The results of the container measurement are compared with the fill level detected by means of a radiometric inspection. In this way clear statements are made regarding the tightness of the containers.

The HEUFT *pakCheck* checks that the closures are present and correctly fitted using a sophisti-

cated camera technique. The integrated HEUFT *vio* OCR code reader inspects the BBD of each container at peak speed to ensure that it is present, exactly positioned, correctly printed and that its contents are accurate. Faulty containers are rejected from the production flow. The range of functions of the compact HEUFT *pakCheck* can be further extended due to its modular design: for example a closure colour detection and a barcode verification can be optionally integrated.

The device rejects faulty carton packages reliably. This protects the consumer from health hazards and the producer from costly liability risks.

The economic climate

No time for short time

Many a company is suffering under the present economic and financial crisis. Short time or even personnel reductions are the maxim in many places. This is not the case at HEUFT SYSTEMTECHNIK GMBH: the production department is always working at full capacity even in 2009.

HEUFT is in a good position despite the crisis. After a record year in 2008 the number of advance orders has only decreased slightly. Our customers are benefiting from this due to shorter delivery periods. Our employees are still fully employed. The prospects for the future give reason for a great deal of optimism.

HEUFT owes the positive overall situation to different factors. Our global orientation plays a major role in this respect. Because we are also very successful in markets which are not affected by the crisis to such a great extent or where demand has been increasing again for some time now.

We are at an advantage where a plunge in capital expenditure can still be felt with lean solutions which are good value for money and increase the efficiency of existing equipment with a lasting effect. This protects valuable resources now and ensures a maximum output when the economy gathers momentum again.

Furthermore technological unique features such as the particularly low-radiation, pulsed X-ray measurement for the precise identification of dangerous foreign objects ensure us popularity with many customers just as the modular construction of our range of products which fulfil

concrete requirements exactly on site. We do everything in order to satisfy our customers and never give up until we have provided you with top quality solutions! We not only define the latest technological developments in the drinks industry with our checking, inspecting, transporting and labelling systems but also extend the liquid food, dairy, food and pharmaceutical sectors.

Our internationality, our know-how and our product philosophy keep us on the road to success even in economically difficult times - no time for short time!

A POWERFUL PARTNER

Successfully implementing important investments together

From planning, installation and commissioning to financing: HEUFT is a powerful partner at your side who will give you full support with your projects as regards the optimal safety of your products and the maximum efficiency of your filling line.

We know that the investment costs for HEUFT systems generally pay for themselves quickly and we would be pleased to provide you with a tailor-made offer as regards financing under certain circumstances. Ask us, we will successfully implement your project with you!

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Varied possibilities for checking full containers

Whether PET container, drinks can or swing top bottle: the HEUFT *basic* checks the fill level of all types of containers with the most suitable technology in each case. HEUFT SYSTEMTECHNIK GMBH will be showing the latest model of the compact full container check in action at the drinktec 2009 exhibition (Stand 524 / Hall A5). In addition its range of functions includes different methods for checking closures and labels, measuring the internal pressure of a container as well as monitoring the filler valves and detecting bottle breakages.

A real all-rounder which can be tailor-made to the respective requirements on site due to its modular construction: the HEUFT *basic* uses infrared, high frequency or X-ray technology in order to check for overfilling or underfilling depending on the material, shape and bottle dress of the containers to be inspected. Infrared photo-cells check the fill level of transparent containers. They emit a signal as soon as the product inside the container interrupts the beam. The use of HF technology allows exact conclusions to be drawn about the fill level of non-transparent containers. They pass through an electric field which changes depending on the product quantity. X-ray technology provides the best



result if non-transparent containers have special features e.g. they have foil or swing tops: the measuring beam penetrates these external characteristics and is attenuated on the inside by the product. A receiver records this so that the fill level can be precisely determined. Drinks producers can equip their HEUFT *basic*, which has been manufactured in series, exactly with those modules which they actually need for checking full containers. The same applies to optical, inductive or acoustic methods for checking the presence of a closure, acoustic and inductive procedures for determining the



internal pressure of a container and different sensors for detecting labels. In addition a bottle burst detection can be integrated which identifies bottle breakages in the filler in time, rejects burst bottles as well as other possibly contaminated containers reliably and activates a shower function for cleaning the filler valves. An integrated filler valve monitoring module and a serial fault detection which generates a switch-off pulse in an emergency round off the varied possibilities which the device offers. The result: a tailor-made full container check at an extremely favourable price.



The HEUFT *fluid*

Detecting residual liquid precisely

The HEUFT *fluid* checks empty non-metal containers before filling for residual liquid with a precise high-frequency measuring technique.

The cost-effective stand-alone solution identifies even the smallest quantities of residual caustic lye which can put the consumer's health at great risk.

The HEUFT *fluid* has been equipped with two measuring heads which are opposite each other on both sides of the conveyor for a precise residual liquid detection. One functions as a transmitter and the other

as a receiver. The high-frequency coupling between the two is measured. This changes as soon as a container with residual liquid enters. The evaluation unit makes a decision regarding its

potential danger depending on the extent of this change: a warning lamp indicates when it exceeds the values preset by the integrated intensity regulator. An acoustic warning signal and / or a filler switch-off pulse are activated at the same time. The operator has to confirm that the danger has been averted by means of an integrated reset function in order to cancel the stop signal.

The HEUFT *fluid* protects the consumer from health risks and the producer from costly liability cases. Consequently the compact, easy to integrate device constitutes an effective part of the HACCP programme for filling lines.



Detecting and rejecting floating foreign objects

Whether bits of paper, sweet wrappings or pieces of foil: foreign objects which do not settle on the container base but float in the product are particularly difficult to detect. The HEUFT *float* identifies such contamination. Other optional, integrable inspection modules turn it into a versatile full container check.

The HEUFT *float* finds even the smallest floating foreign objects in containers filled with transparent liquids using a combination

of stroboscope lighting, a CCD camera for a bright field and a dark field inspection respectively and a multiprocessor control unit. Shiny that is semi-transparent foreign objects are detected using the bright field inspection. The dark field inspection

identifies transparent, floating foreign objects and even looks through applied colour labels at the same time. The compact, easy to integrate system inspects up to 72,000 containers per hour.

The HEUFT *float* can be equipped with optional features for an extensive full container check. Consequently modules for a fill level detection and leakage check, for a label and closure inspection can be integrated. The compact device is user-friendly due to the multilingual HEUFT *PILOT* graphical user interface with plain text display. The integrated future-proof network interface makes an online connection to the HEUFT *TeleService* and SQL / DDE database interfaces possible.



Dirk Henschke
Certified engineer



Product manager for
foreign object detection



"To tread new paths and develop our own new ideas in order to find the perfect solution is also our motto as regards foreign object detection. See for yourself. I look forward to meeting you."

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INFOBOX

A minimum amount of radiation

Particularly careful: the pulsed, radiometric measurement is a unique feature that only X-ray inspection systems from HEUFT can offer. It combines maximum detection accuracy with minimum radiation exposure. While a radiation intensity of 10,000 Gy is considered to be completely harmless when inspecting food this amounts to just 0.000015 Gy in the case of the devices of the HEUFT eXaminer series. The specially constructed X-ray strobes are only activated when there really is a filled container in the inspection area. No more radiation than is necessary is ever emitted irrespective of the throughput speed. That not only protects the product to be inspected but also saves energy.



Foreign object inspection

Effectively preventing risks

Whether in glass, metal, plastic or cardboard packaging or in liquid, paste-like, solid or powdery products: the latest version of the HEUFT eXaminer XA tracks down dangerous foreign objects such as pieces of glass, metal splinters and stones even more reliably now. Contaminated containers are rejected before they reach the market. New components and functions maximise the detection accuracy and minimise the false rejection rate of the proven full container inspection.

The pulsed radiometric measurement of the HEUFT eXaminer XA manages with only a fraction of the X-rays compared with conventional foreign object inspections (see info box). The fact that it now provides even more precise results has been achieved by the HEUFT development team amongst other things with the new shading and flat field correction functions during image processing. The HEUFT reflex technology even identifies foreign objects on curved container bases. A sidewall detection is also available as an option in addition to the complete base inspection. The extended HEUFT nbx filter

technology ensures that container structures and product inhomogeneities are not mistaken for contamination. Even the smallest foreign objects hidden behind glass facets are reliably detected in this way. The perfected full container inspection not only provides the best results when carefully checking the quality of drinks. But also in the food sector (especially in the case of the particularly difficult detection of foreign objects in dairy products) - the HEUFT eXaminer XA protects the consumer from health risks and the producer from recall actions.



Full container inspection

Detecting foreign objects and glass faults

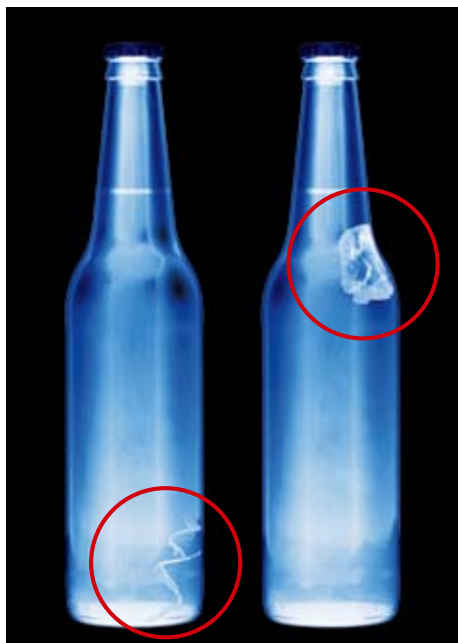
The HEUFT *eXaminer XO* not only identifies solid foreign objects but also lower density contamination in filled, transparent bottles. The full container inspection has been equipped with optical and radiometric inspection technologies for this. Therefore it is ideally suitable for safeguarding product quality along glass and PET lines.

Minute glass splinters, small pieces of metal, fill tubes and other high density foreign objects are tracked down by the HEUFT *eXaminer XO* using



a pulsed X-ray measurement in the same way as all the other full container inspections of the HEUFT *eXaminer* series (see info box). A specially developed belt drive aligns the bottles optimally at four X-ray inspection stations in order

to achieve maximum detection accuracy. The HEUFT *eXaminer XO* has been equipped with additional camera-based technologies for inspecting the base and the sidewall so that lower density contamination such as bits of paper or insects are reliably found. Even semitransparent and transparent foil and glass faults such as



chipped bases or bird swings are identified by combining a bright field and a dark field detection. State-of-the-art camera, filter and picture evaluation modules ensure optimal results.

The revolutionary combination of radiometric and optical technology closes a security gap along glass and PET lines. Even difficult to identify foreign objects in a product and faulty packaging do not present a problem to the HEUFT *eXaminer XO*. They are discovered before it is too late.



New building project

More room for innovations

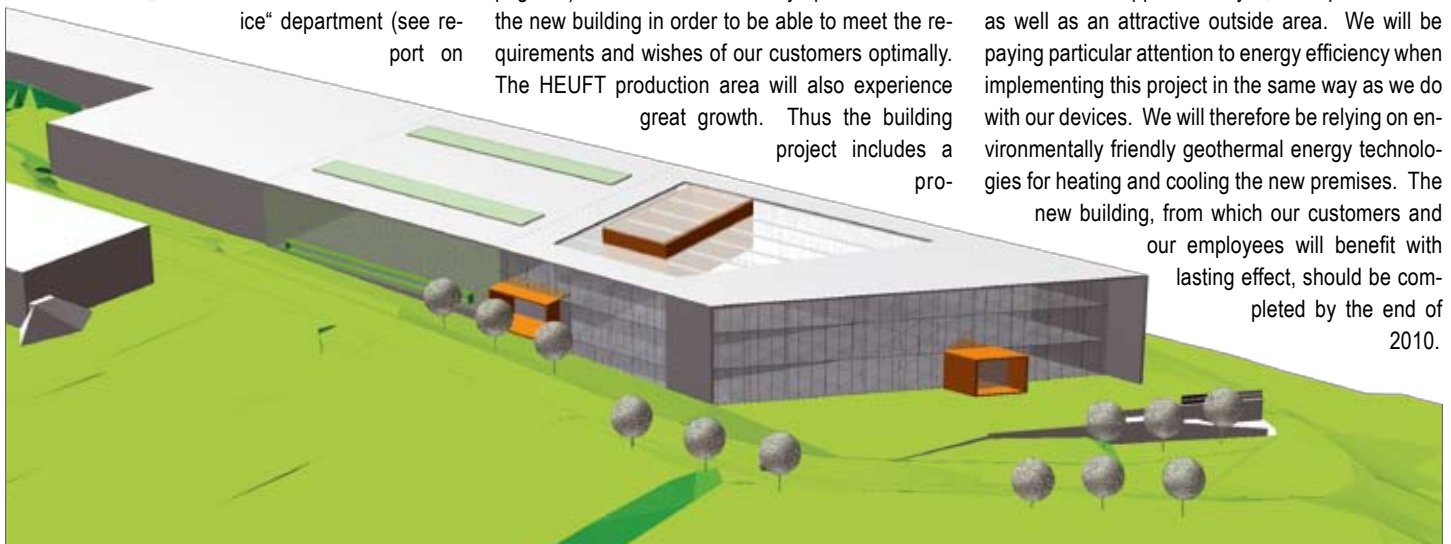
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The „Customer Care & Technical Service“ department (see report on

page 16) will receive its own very spacious area in the new building in order to be able to meet the requirements and wishes of our customers optimally. The HEUFT production area will also experience great growth. Thus the building project includes a pro-

duction hall of approximately 2,000 square metres as well as an attractive outside area. We will be paying particular attention to energy efficiency when implementing this project in the same way as we do with our devices. We will therefore be relying on environmentally friendly geothermal energy technologies for heating and cooling the new premises. The

new building, from which our customers and our employees will benefit with lasting effect, should be completed by the end of 2010.



New leakage check

Tracking down minute leaks even more precisely

More precision when identifying minute leaks: the detection accuracy of the HEUFT *squeezer QL* is considerably higher compared with other HEUFT devices for checking the tightness of plastic containers. Therefore the new development is ideally suitable as a sustainable quality inspection for particularly sensitive products such as dairy drinks, liquid food and enteral food.

More precision when identifying minute leaks: the detection accuracy of the HEUFT *squeezer QL* is considerably higher compared with other HEUFT devices for checking the tightness of plastic containers. Therefore the new development is ideally suitable as a sustainable quality inspection for particularly sensitive products such as dairy drinks, liquid food and enteral food.


The new HEUFT *squeezer QL* leakage check even detected microscopically small faults reliably every time during tests. Therefore the already impressive performance which the HEUFT *squeezer QA* and the HEUFT *squeezer QS* have to offer was again surpassed: the detection accuracy has quadrupled with regard to the size of the hole.

The HEUFT development team has achieved this quantum leap by using a new belt drive. It applies a precisely controlled amount of pressure to the containers which pass through freely, with belts which are three times as long as those of the other two device versions, in order to identify leaks using a comparative fill level measurement in a compressed and non-compressed condition. The result: more time for a considerably higher detection accuracy.


A servo control system adjusts the height and the passage width of the belt which is no longer divided and the position of the measuring bridges for the fill level detection completely automatically. This makes it possible to inspect larger plastic containers and eliminates misadjustments during a brand change due to operating errors. The belt adapts itself independently to the changed container shape at the push of a button. All the brands which have been read in can be repro-

duced completely automatically. The new HEUFT *squeezer QL* also provides tried and tested functions for an optical closure inspection as do the other two device versions. This new development is particularly suitable for checking plastic containers which are filled with extremely sensitive contents precisely for leaks. Because even minute leaks can seriously endanger the integrity of the products and with that the health of the consumer in this area. Above all the fillers of dairy products, liquid food and enteral food could be interested in the HEUFT *squeezer QL*. See its outstanding performance for the first time at the drinktec 2009 exhibition for yourself.

Stephan Bachmeier
Qualified engineer



Product manager for leakage checks and rejection systems / filler and closer management



"Product safety in the food and drink industry depends on the inspection and rejection technology used. We provide our customers and consequently the actual consumer a very high degree of product safety with our highly efficient leakage checks and intelligent rejection systems for every type of container and case."

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HEUFT *squeezer QS*

A space-saving alternative



The HEUFT *squeezer QS* is the ideal solution for drinks producers who do not wish to do without the advantages of a fully automatic leakage check despite a limited amount of space along the line. This compact system is also impressive with a high degree of detection accuracy and a servo-controlled adjustment of belts and measuring bridges for a particularly easy brand change at the push of a button.

The HEUFT *squeezer QS* is also equipped with a servo-controlled, mechanically supported belt drive which applies pressure to the containers in order to specifically track down leaks. However it is only one third of the length of the HEUFT *squeezer QL*. Apart from

that the HEUFT *squeezer QS* provides the same advantages as the premium device whilst requiring considerably less space.

An extended adjustment range for inspecting larger containers therefore also becomes reality as does the complete elimination of operating errors during a brand change. Because the brand adjustments for the HEUFT *squeezer QS* can also be reproduced completely automatically. The low-maintenance device is also impressive due to its integrated central lubrication system and contact strip cooling unit.

The HEUFT *squeezer QS* fully automatic leakage check is a space-saving alternative to the HEUFT *squeezer QL* premium system particularly along lines for different types of juice and soft drinks.

The new HEUFT websites

Multimedia adventure environment

Modern, user-friendly and attractive: the Internet appearance of HEUFT introduces itself with a new look. We have compiled all the information about us and our wide range of products on our new web pages in a clear and attractive way for you. The new HEUFT website has been put online in two different versions in order to satisfy all users.

The animated Flash pages provide you with a multimedia adventure environment on www.heuft.com. You can gather information and news about HEUFT interactively at a glance in order to reach the contents which really interest you in more and more detail. You can discover detailed product descriptions,



which you can open, leaf through, zoom, print and save, as well as multimedia contents which show our devices in action among other things with the greatest of ease.

The load time optimised HTML version has therefore been slimmed down but without having to cut back on informational value, clarity, ease of use and design. You will also find everything you wish to know about HEUFT here as well. The optimised menu prompting creates a better overall view for you. Use-

ful help boxes contain valuable additional information and generate real added value. It is also possible to change directly to the animated Flash version of the new HEUFT Internet presence from each subpage using the „discover HEUFT“ box. You can then take advantage of all the multimedia features there.

Both versions of the new HEUFT Internet appearance are available in German, English, Russian, Chinese and Spanish. Other languages will be added shortly. Why not click on it: www.heuft.com.

In-house developments

Passionate about new technologies

Great importance is attached to research and development at HEUFT - 20 per cent of all the employees are active in this area.

Scientists and engineers, experts in the fields of terotechnology, automation systems, electrical engineering, electronics, information technology, mechanical engineering, mathematics, communications engineering and physics, all research and develop automation solutions, which define the latest technological developments in the bottling hall, under the same roof and in close co-operation with the production and the project planning departments. This close team work combines a profound understanding

of theoretical principles with an elementary practical relevance. Experience gathered at the customer's today is already utilised tomorrow to further develop the HEUFT systems. The strictly upward compatible product lines ensure that all the devices can always be technically retrofitted and upgraded.

From hardware and software, mechanics and process engineering up to documentation in twenty-five different languages: we develop and understand all our technologies from the basic principles onwards. The result: concise in-house know-how and a reliable availability of spare parts for decades to come. HEUFT can always develop and supply alternative solutions even when certain components are no longer available on the global market.

We pay particular attention to the reusability of individual modules when developing new systems for the drink, liquid food, food and pharmaceutical industries. This has enormous advantages as regards

time. For example we were therefore able to rely on the servo technology which already existed for controlling the container alignment of the new HEUFT *TORNADO D flex 2-in-1* labeller (see page 1).

One of the greatest driving forces at HEUFT as regards ideas is the founder and owner of the company himself. Bernhard Heuft's ideas become real solutions during intensive discussions and brain storming with our development team. But our HEUFT developers are also always passionate about new technologies and provide new ideas for products again and again which frequently become part of a prototype and finally an efficient series production.

The distinctive scope of development, the in-house transfer of knowledge, the use of fundamental results of the latest research for the most varied applications and last but not least the intensive co-operation with suppliers guarantees the best quality which is worth its price.

WE HAVE JOB VACANCIES!

The Eifel region is unique - whether as a holiday or a recreational paradise or as a business location with attractive service and job offers.

We are an international group of companies with a leading market position in the innovative checking device and labelling technology sector for the food and drink industry. A technological head start and a flexible organisation have played a decisive role in our success. The expansion of our business is largely based on the know-how and motivation of our employees.

Constant growth as well as new technical challenges due to the global market provide the basis for a continuous increase to our permanent staff.

Graduates and students of the following courses:

electrical engineering / automation systems / physics / drinks technology / mechanical engineering / terotechnology

have good opportunities as (m/f):

development engineers

in the fields of software and hardware, information technology, mechanics / mechanical engineering, image processing, optics, processing, food technology and medicine technology

as well as

project engineers and technicians

Our varied range of products reveals our competitiveness. Visit our Internet pages on www.heuft.com and get to know us. See you soon!

Bottle burst detection

Integrated glass splinter protection

Inspection, fill management and prevention: the HEUFT VX combines varied possibilities for safeguarding product quality and the efficiency of the filler and closer in one device. It is now also available with a newly developed acoustic bottle burst detection. It even detects partially broken bottles and removes containers which could be contaminated with splinters of glass reliably from the production flow.

In addition to the proven full container inspection and fill management functions the HEUFT VX provides an effective, preventive glass splinter protection with the new bottle burst detection. For this sensors search for containers which are extremely underfilled whilst a microphone constantly monitors the level of noise around the filler. Because burst bottles make a loud



noise. A partially broken bottle where only parts of the bottle have burst away is considered to be detected if such a distinct noise is recorded and a direct connection with the detected underfill established. A shower function is then activated which removes splinters of glass from the filler valves. The bottle in question is rejected as well as adjacent containers which may be contaminated. A great risk potential is eliminated in this way by identifying partially burst bottles which were often undetected until now.

The HEUFT VX checks the quality characteristics of products which have already been filled in its role as a full container inspection: it exam-



ines the containers for overfilling and underfilling whilst taking the foam which may be present into consideration, checks the most different closure features, detects trapped residual air and finds lost fill tubes. It takes over the monitoring of the filler and closer and provides exact information regarding the operation of individual filler valves and closer heads in its role as a fill management solution.

Fast brand changes

New wrap-around labeller from HEUFT

Perfect labelling all around: the new HEUFT *TORNADO R* is equipped with a servo-controlled belt for the particularly precise application of wrap-around labels and technologies for a sustainable final product check.

The new HEUFT *TORNADO R* is able to apply wrap-around labels to up to 60,000 containers per hour using either a parallel or a linear transport system. The HEUFT development team has equipped the labeller with a specially developed servo-controlled belt drive and not with standard rotating gears so that it can do this particularly accurately and carefully. It adapts to different container sizes exactly and rotates the bottles and jars which have been fixed in platforms by means of centring bells harmoniously. Consequently wrap-around labels made

of paper or cut foil can entwine them completely. The rotation speed as well as the height of the up to six nozzles which can be individually activated for the initial gluing can be adapted to the most different container shapes as required. The result: a particularly simple and fast brand change.

The nozzles apply the smallest spots of glue onto

the rotating containers in a well-measured and careful manner. These glue spots pull the respective label out of the magazine. A thin line of glue is applied at the end of the label at the same time so that the overlap can be stuck precisely and brushed



on carefully. The closed hot glue system of the HEUFT *TORNADO R* reduces glue consumption to a minimum compared with a conventional roller application. At the same time it ensures that the glue is protected from ambient air and contamination. This reduces upkeep and increases the operating reliability of the machine which has been con-

structed so that it is particularly low-maintenance and wear resistant. The integrated control cabinet makes fast and uncomplicated installing and commissioning possible. The standard broken container detection in the infeed and optional features provide additional benefits for an extensive final product check. Thus the HEUFT *TORNADO R* can be equipped with highly efficient modules for a precise label and closure inspection. Fill level, internal container pressure, BBD and barcode checks can be integrated as well as a serial fault detection which emits a switch-off pulse before it is too late. Containers which have

been identified as being faulty can be removed reliably from the production flow by means of rejection and laning systems. Automatic sampling functions assist internal quality assurance. HEUFT has developed a convincing solution yet again with the new wrap-around labeller which has proved its worth on a daily basis.

Larger label stock and easier to use

The HEUFT *TORNADO W* wet glue labeller can be equipped with an automatic magazine feed (AMF) with immediate effect. This additional feature which can be retrofitted guarantees a larger label stock and reduces the necessity of manual intervention to a minimum. This avoids costly downtimes and saves human resources.

The new AMF comprises a supply table attached to the labelling station which provides enough room for several refill magazines. A belt transports the new supplies directly to the head of the working magazine when the label stock has been used up in the machine. The empty magazine slides into a special removal station and the full one moves up. A pneumatically fixed, separate, small label reservoir at the head of the labelling station prevents the labelling process from being interrupted during the automatic change.



The AMF which can be retrofitted takes the load off employees and ensures that the HEUFT *TORNADO W* high-performance labeller operates longer. The operator only has to check from time to

time that the supply table has been provided with full refill magazines. He is assisted by a special sensor system the signals of which are displayed on the HEUFT *PILOT* graphical user interface.

PDA tool for increased efficiency and quality

A reasonably priced software solution for production data acquisition (PDA) enriches the HEUFT SYSTEMTECHNIK GMBH range of products. The new HEUFT *PROFILER elemental* always informs the employees and decision-makers of a filling line reliably about the performance of the production line. The result: sustainable efficiency and quality management.

All the checking, inspecting, sorting and labelling systems of the HEUFT *SPECTRUM TX* series can be simply connected to the HEUFT *PROFILER elemental* via Ethernet using plug and play. Furthermore a specially developed device interface makes it possible to integrate the compact PDA tools in already existing IT infrastructures particularly easily and quickly. It can generally start work and record elementary production data from the first day. This is made available in real time network-wide via the Internet browser. The data can be analysed, prepared in table and graph form and saved to the integrated SQL database as long as required not only along the filling line itself but also from every connected office PC. The production counters of all the connected devices can be retrieved at any time with the HEUFT *PROFILER elemental*. Therefore performance losses and downtimes are identified quickly and

easily. Freely selectable analysis ranges and intervals make a specific evaluation of all the performance indicators recorded possible over a period of time. Comparing the values of different

analyses with which the detection performance of different HEUFT inspection devices can be checked. The HEUFT *PROFILER elemental* displays them in detail and in addition provides an overview in table and graph form. Analyses which have not been fulfilled are specially marked.

The software creates detailed reports in PDF format for a continuous documentation of the production counter and test bottle data. Their layout can be adapted in accordance with the special corporate design of the respective filling plant. The browser-based software solution can be operated without any special previous knowledge intuitively

in a familiar web environment due to the clear navigation structure and a situational online help.

The HEUFT *PROFILER elemental* facilitates a competitive introduction to a sustainable efficiency and quality management. The new software generates elementary performance indicators, which had to be collected, evaluated and documented by hand with difficulty not



production counters does not present a problem either with the new PDA tool. For instance the ratio between inspected and rejected containers can be determined and displayed in a table as well as in different diagrams for quality control purposes. A sustainable quality assurance is achieved with the freely configurable logs of the test bottle ana-

lyses so long ago, completely independently. This solution fulfils the „Weihenstephan standard for the production data acquisition along drinks filling and packaging lines“ just as the HEUFT *PROFILER TX* and the HEUFT *PROFILER* highly-efficient, server based PDA and line analysis tools.

HEUFT *FinalView FO*

Final container inspection with previously unheard of precision

High dynamic LED illumination technology of the latest generation, the most modern Gigabit Ethernet colour cameras and a particularly detailed picture analysis distinguish it: the HEUFT *FinalView FO* complies with the highest quality demands relating to label and closure inspection among other things. This new development is first class above all where there is a diversity of brands and for the sustainable inspection of the most varied containers.

The HEUFT *FinalView FO* sets new standards for the precise final inspection of newly filled containers. The new development achieves an adjustable, particularly homogeneous, automatically reproducible brand-specific, all-around illumination in order to check the presence, the correct positioning, integrity and equipment of the labels and closures. For this LED modules of the latest generation which are exactly controllable move the containers into the correct light. They are harmoniously illuminated from above and below. This is achieved without having to make any concessions due to the conveyor chain which lets light through: matt or shiny label areas are individually illuminated so that neither reflections nor shadows can impair the precision when detecting faults.

In addition the extremely modern, high-performance camera technology of the new HEUFT *FinalView FO* contributes to its particularly high detection accuracy. Up to four Gigabit Ethernet cameras on two levels produce pin sharp photographs from four staggered angles of vision which

are combined into a 360 degree view without dead zones and artefacts afterwards. The resolution of these photographs has doubled in comparison with the standard HEUFT *FinalView FX* final product check. The result: a considerably improved inspection of minute details such as BBD and barcode imprints, cutting marks or closure logos. The photographs are digitised per Gigabit Ethernet and transferred to the perfected HEUFT *reflexx* image processing technology for evaluation the performance of which has more than quadrupled. It ensures that containers with missing, non-brand, incorrectly positioned, misprinted or damaged labels and closures can be identified even more precisely and that the proportion of costly false rejections is minimised. The new HEUFT *FinalView FO* also detects symbols or lettering the colour of which is similar to the respective background and rejects the containers in question. Whether fill level detection or leakage check, vacuum inspection, serial fault detection or an automatic vertical or guide rail adjustment for a fast brand

change: additional functions with which the HEUFT *FinalView FX* already impresses are of course also provided by the HEUFT *FinalView FO*. The new development can easily keep up with the output of 72,000 containers per hour of the standard final container check; it even has upward output reserves. Furthermore it makes the inspection of oversized containers with a diameter of up to 150 millimetres possible. The robust and hygiene-friendly construction of the premium device sets new standards for the sustainable final check of filled containers with its completely integrated optical and electronic components and a previously unheard of detection accuracy.



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Filling and packaging technology / Dairy / Food / Pharma / Liquid Food

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The "HEUFT LGX" returned case inspection

New swing top detection

The HEUFT LGX now also detects swing tops during a non-contact, all-around inspection of cases with empties. The outcome: returnable cases which cannot be unpacked are removed from the production flow in order to protect downstream machines.



The new HEUFT LGX also detects swing tops in addition to checking the height, colour, material

and the presence of closures of empty containers in bottle cases, verifying the dimensions and the integrity of the cases and detecting foreign objects. They are unmistakably identified even when they are open and clearly differentiated from similar structures such as the remains of labels. The danger of swing top bottles thwarting the efficiency of a filling line for conventional bottles has therefore been averted.

The new detection also clearly separates foreign swing top bottles from those of its own production. For this characteristic features such as the closure logo, the colour of the rubber seal, the bottle height and the shape of the finish are analysed. The returned case check makes a clear decision regarding the compatibility of the examined con-



tainer with the currently processed brand with the help of the proven HEUFT fuzzy logic using a specially defined algorithm.

The optional extension of the swing top detection increases the range of application of the highly efficient HEUFT LGX returned case check. It prevents a mixed assortment because it sorts out non-brand and damaged cases and bottles in time. This ensures the operability of downstream machines and contributes to an increase to the efficiency of the bottling hall with lasting effect.

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Extensive service from one source

HEUFT know-how always at your side

Faster response times for an optimal service to customers: HEUFT has consolidated its expertise as regards service. Our Customer Desk together with the Telephone Hotline and the HEUFT *TeleService* have been merged with the Technical Service Department into the new particularly effective team: „Customer Care & Technical Service“. We can now meet the requirements of our customers even more specifically.

You will be able to contact experienced, multilingual people who are always ready to answer your questions relating to configuration, maintenance and spare parts, fault diagnosis and trouble shooting or very specific requests on +49 26 36 / 56 27 70. Customers with contracts can request service technicians and spare parts immediately round the clock via a special hotline.

Problems are solved efficiently and promptly - whether by means of intensive guidance on the telephone, the HEUFT *TeleService* or an immediate on-site visit by an experienced technician. Our service team led by Jörg Raffauf can analyse the performance of your HEUFT systems, locate error sources from the office desk and immediately initiate the correct measures in each case due to the most up-to-date communication technology. In most cases online access directly to the respective device via the HEUFT *TeleService* is sufficient. Regardless of the location our technicians can analyse and immediately rectify malfunctions via a protected Internet connection. This reduces expensive downtimes and saves travelling costs. However should a

HEUFT service technician nevertheless be required on site then this is effectively reduced due to the information already obtained via the online connection. Service

HEUFT Service

+49 (0) 26 36 / 56 -2770

technical.desk@heuft.com

bases on all five continents guarantee that the technician is on the spot as quickly as possible for installation, commissioning, maintenance and repairs all over the world. They are familiar with all the HEUFT systems due to extensive in-house training and a wealth of experience.

Regardless of what happens: the HEUFT service team is always at your side! Specific help in the case of malfunctions and cost-effective maintenance ensures the maximum availability of your equipment. Maintenance work can be requested individually or can be carried out regularly within the context of a contract. The latter offers a high degree of planning reliability

Jörg Raffauf
Qualified engineer



Service Manager




„The first impression leaves its mark and the last impression stays“ is Jörg Raffauf's motto. As manager of the „Customer Care & Technical Service“ team he always attaches the greatest importance to providing an extensive service to his customers.

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because the corresponding capacities and parts for the agreed maintenance date have been scheduled in good time. The service technician has direct access to spare parts which may be unexpectedly required due to device-specific maintenance boxes which have been equipped in advance. This avoids waiting times. He makes a maintenance report during the visit which verifies that the work has been completely and professionally carried out.

Synergies have been created due to the merging of all the service areas which considerably increase our response times and competence yet again so that we can provide an optimal service to our customers.

Technological head start

Multimedia towers at drinktec

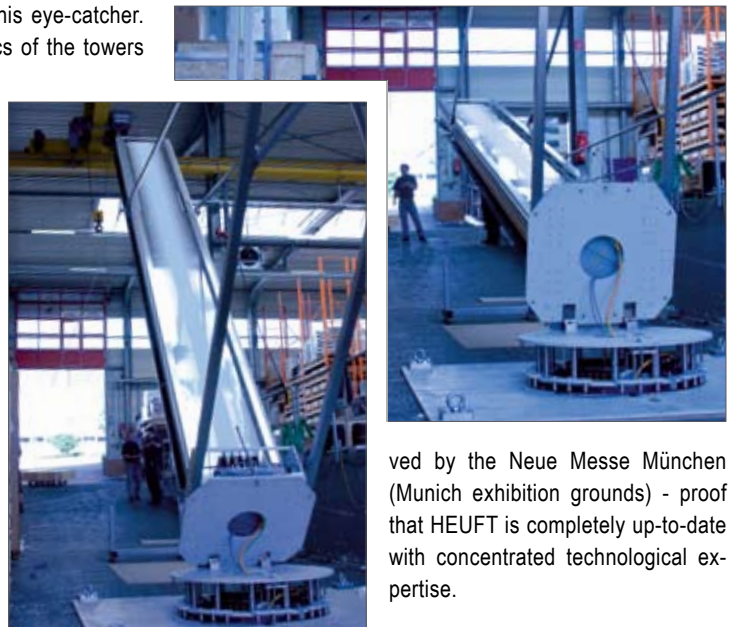
They already point the way to HEUFT from a long way off. They show the technologies which we have to offer as regards quality assurance for drink, dairy and food products and they symbolise the innovative HEUFT servo control for a particularly precise container alignment at the same time: we have developed and implemented the technologically demanding multimedia towers on our drinktec stand ourselves.

Experienced exhibition visitors have known a long time: HEUFT is not just in the fore concerning innovative inspecting, sorting, transporting and labelling systems. We always have real highlights on offer as regards the construction of our exhibition stand. The word "highlight" can be taken completely literally at the drinktec 2009 exhibition: four multimedia towers each 7.5 metres high and another one with a height of at least 6.3 metres cause a sensation.

The towers move all the time, rotate up to 340 degrees and readjust themselves again and again. The servo-controlled container alignment which ensures a particularly accurate labelling process, e.g. in the new HEUFT *TORNADO D flex* 2-in-1 labeller (see page 1), is demonstrated in this way. The integrated flat screens show synchronously streamed illustrations and videos of our range of products and their varied application spectrum. As always HEUFT has relied on its own know-how

in order to implement this eye-catcher.

The complete mechanics of the towers themselves as well as the multimedia contents on the monitors and the hardware and software related control system of the streaming are in-house developments. The acceptance procedure regarding the design calculation test for moveable fixed constructions went off smoothly. The design of the construction which caused a sensation was directly appro-



ved by the Neue Messe München (Munich exhibition grounds) - proof that HEUFT is completely up-to-date with concentrated technological expertise.