

**HEUFT PRODUCTS**  
presented at BrauBeviale 2016



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YOUR PRODUCT  
TRUE INSPECTION  
SAFEGUARDING  
PERFECT QUALITY

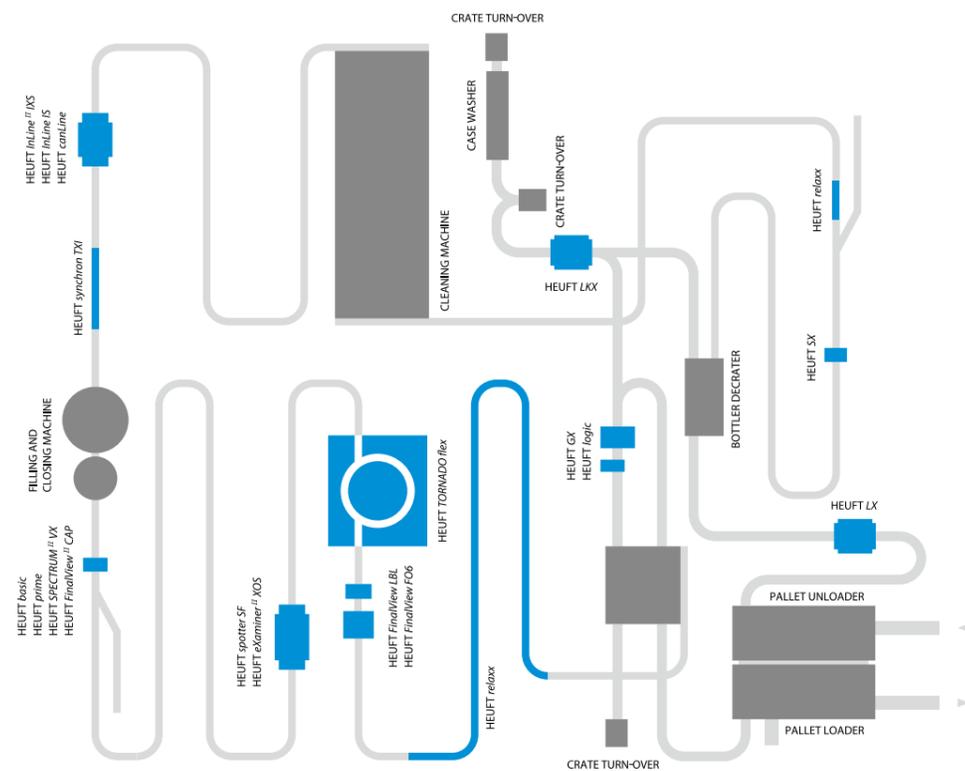
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## HEUFT IS SYSTEMTECHNIK

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Quality, safety and efficiency: this is what matters when filling and packaging food, drinks and pharmaceuticals! The modular solutions from HEUFT SYSTEMTECHNIK GMBH put these key factors into practice simply and effectively. They ensure, during maximum productivity, that only perfect products reach the market.



## PERFECT QUALITY FROM THE BEGINNING TO THE END

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## HEUFT SX

Empty bottle sorting for full brand purity.



TX

reflexx

TX

TX

# HOMOGENEOUS & ERROR-FREE

Sorting, checking and inspecting – safeguarding the quality of beverage containers before the filling process.

### More efficiency and productivity

Precise sorting out of non-brand bottles, reliable prevention of faulty filling, standstills and production downtimes.

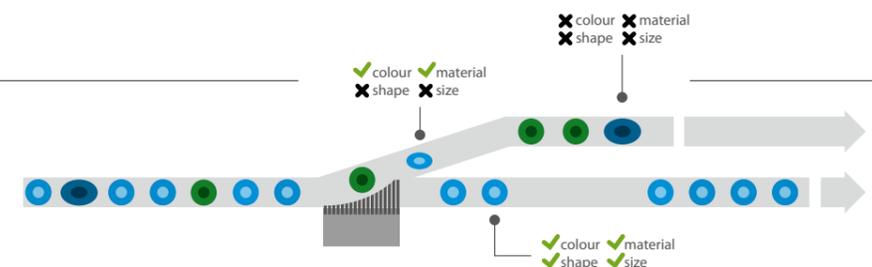
### High degree of detection reliability

Reliable detection of non-brand bottle formats and colours, safe identification of sealed and unsealable bottles as well as clear differentiation between glass and PET.

### Minimum false rejection rate

Accurate rejection due to the combined evaluation of all the measuring results using fuzzy logic.

**72,000** up to  
containers per hour



Discover more

# Empty bottle inspection from the technology leader.



## Out with faulty empties. In with safety and quality.

Perfect empty containers are essential in order to keep the quality and product safety of drinks at the highest level. Compact HEUFT *InLine* systems make sure that only perfect containers arrive at the filler. The continuous complete inspection of the full volume of each individual empty bottle using different detection technologies uncovers safety and quality defects reliably. The respective bottles are rejected consistently.

### Effective protection against product recalls and liability cases

Reliable detection and targeted rejection of faulty empty bottles.

### Maximum detection reliability with a minimum false rejection rate

Precise identification of residual liquid, foreign objects, contamination, inclusions, scuffing, cracks and defects. Clear differentiation between critical faults and harmless deviations for maximum line efficiency.

### No blind spots

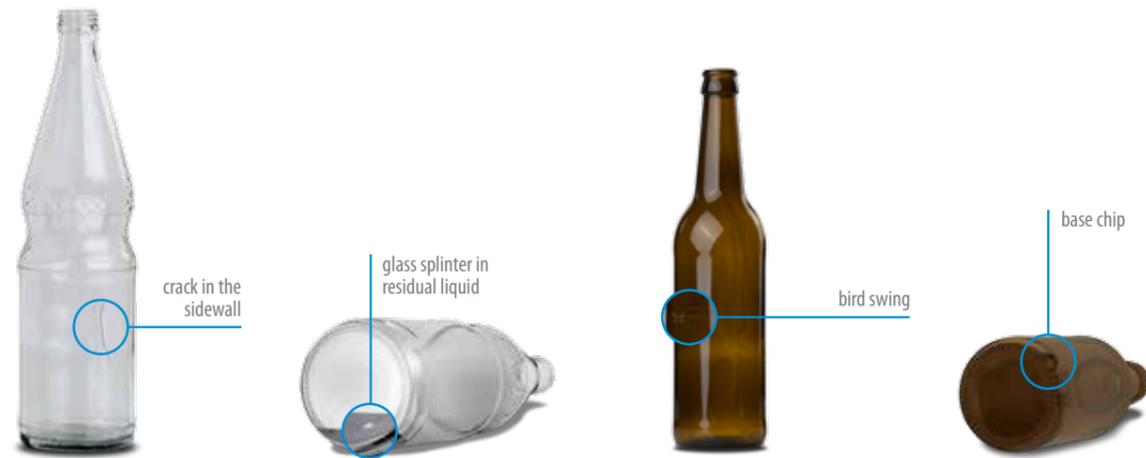
Continuous base, sidewall, finish and thread inspection.

### Superior technologies

Special sensory, optical and radiometric procedures for the reliable detection of a variety of faults.



**SIMPLY FINDING RELIABLY:**  
finish faults, chips, shell-shaped fractures and many other safety and quality defects.



## HEUFT *InLine II IXS*

Empty bottle inspection redefined: unique X-ray strobes for unparalleled detection reliability.



### From the finish to the base

Continuous optical complete inspection of each individual empty bottle without blind spots.

### Unparalleled detection reliability

Precise glass in glass detection and reliable identification of minute defects due to unique pulsed X-ray technology with minimum radiation.

### Simply resource saving

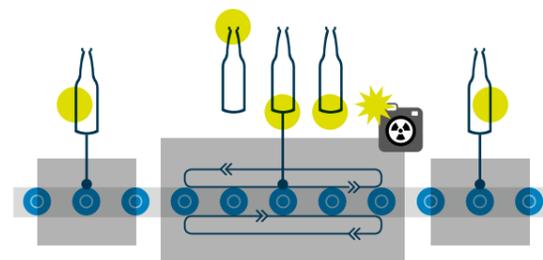
Reliable operation almost without manual intervention.

### Simply easy

Maximum automation and self-explanatory audiovisual user guidance.

### Capable of learning

Sustainable teach-in of individual quality requirements.



## HEUFT *InLine IS*

A classic: high-performance empty bottle inspection.



### Covering everything

Reliable detection of safety and quality defects due to continuous base, sidewall and finish inspection.

### Precise and unerring

High detection accuracy and low false rejection rate.

### Space-saving and clean

Compact construction (actual area < 1 m<sup>2</sup>) in accordance with the hygiene-optimised HEUFT *CleanDesign*.

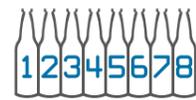
### Individual and upward compatible

Modular system for customised functionality – servo-controlled fine bottle alignment for increased precision during the all-around inspection and automatic adaptation of the transport and detection units for simply faster brand and format changes with the HEUFT *InLine IS*.



Discover more

**84** up to  
containers per hour



**EIGHT SIDE VIEWS**  
for coverage of up to 720°



Discover more

**72** up to  
containers per hour



HEUFT *reflex* / HEUFT *reflex*<sup>2</sup> real-time image processing  
**DETECTION ACCURACY UP AND FALSE REJECTION RATE DOWN!**

Even the best detection technologies are useless if the image processing system cannot keep pace. That is why we developed our own as early as 2002 – with in-house developed hardware and software which is optimally tailored to the inspection tasks:

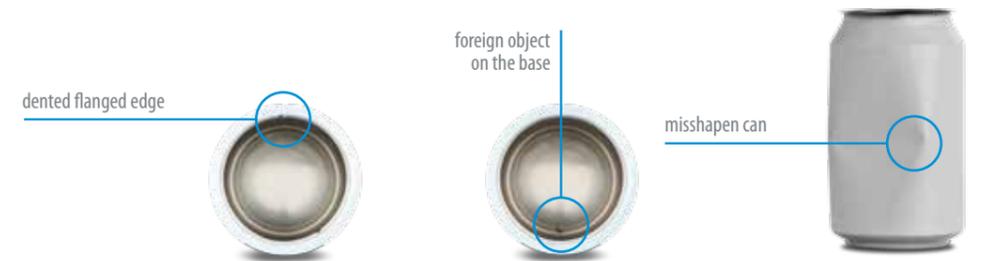
**the HEUFT *reflex* safeguards product quality and output.**

Because the image processing system with multi-processing capabilities carries out a specific object detection. It combines several photographs in real time into extremely clear, continuous detection pictures for this and evaluates them directly. Faults are reliably detected even during high-speed operation and clearly distinguished from harmless deviations: only rejecting that which really has to go.

Exactly what this is in your hands with the new generation of image processing. In addition to the specific detection of the most varied objects the HEUFT *reflex*<sup>2</sup> also carries out their individual classification: you can select them using the touchscreen and characterise them yourself as either good or undesired.

**The HEUFT *reflex*<sup>2</sup> remembers your quality requirements.**

This teach-in together with a faster image transmission and more computing power, resolution, colour depth and contrast increases the detection accuracy yet again. The false rejection rate is reduced substantially. Therefore at maximum productivity only those products reach the customer which fulfil your individual quality criteria exactly.



## HEUFT *canLine*

Empty can inspection for increased product safety and productivity.



**Maximum productivity**

Effective protection against obstructions in the filler / closer system caused by misshapen, unsealable empty cans.

**Maximum product safety**

Reliable detection of foreign objects and contamination inside the can.

**Top performance due to depth of field**

Precise identification of indentations and defects at the flanged edge, contaminants on the inner rim, foreign objects on the base and distorted containers with only one single camera.

**Changing simply**

Fast brand and format changes at the touch of a button.

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**144,000** up to containers per hour





Inspecting empty and full containers automatically



Rejecting faulty products automatically



Changing brands automatically and assisted



Detecting quality defects automatically



Universal device platform

## CROSS-SYSTEM, HIGHLY AUTOMATED AND POWERFUL!

Its consistent modular design principle for a variety of technologies, modules, functions and applications makes HEUFT solutions stand out. A universal platform for individually equipped devices was created with the HEUFT *SPECTRUM TX* almost twenty years ago.

### The HEUFT *SPECTRUM II* goes one step further!

The new generation control unit capable of multiprocessing is just as impressive as its predecessor with a cross-system component equality of 70%, a correspondingly high spare parts availability and a future-proof network connection. In addition it saves valuable human resources due to an exceptional degree of automation and a self-explanatory human machine interface with the audiovisual HEUFT *NaVi* user guidance.

The latest in-house developed hardware and software for significantly more computing power and for real-time data transmission quadruples the precision during purposeful product tracking:

**the actual position of each individual container can be accurately determined up to 0.5 millimetres.**

This ensures that each one is really inspected and each faulty one is removed reliably.

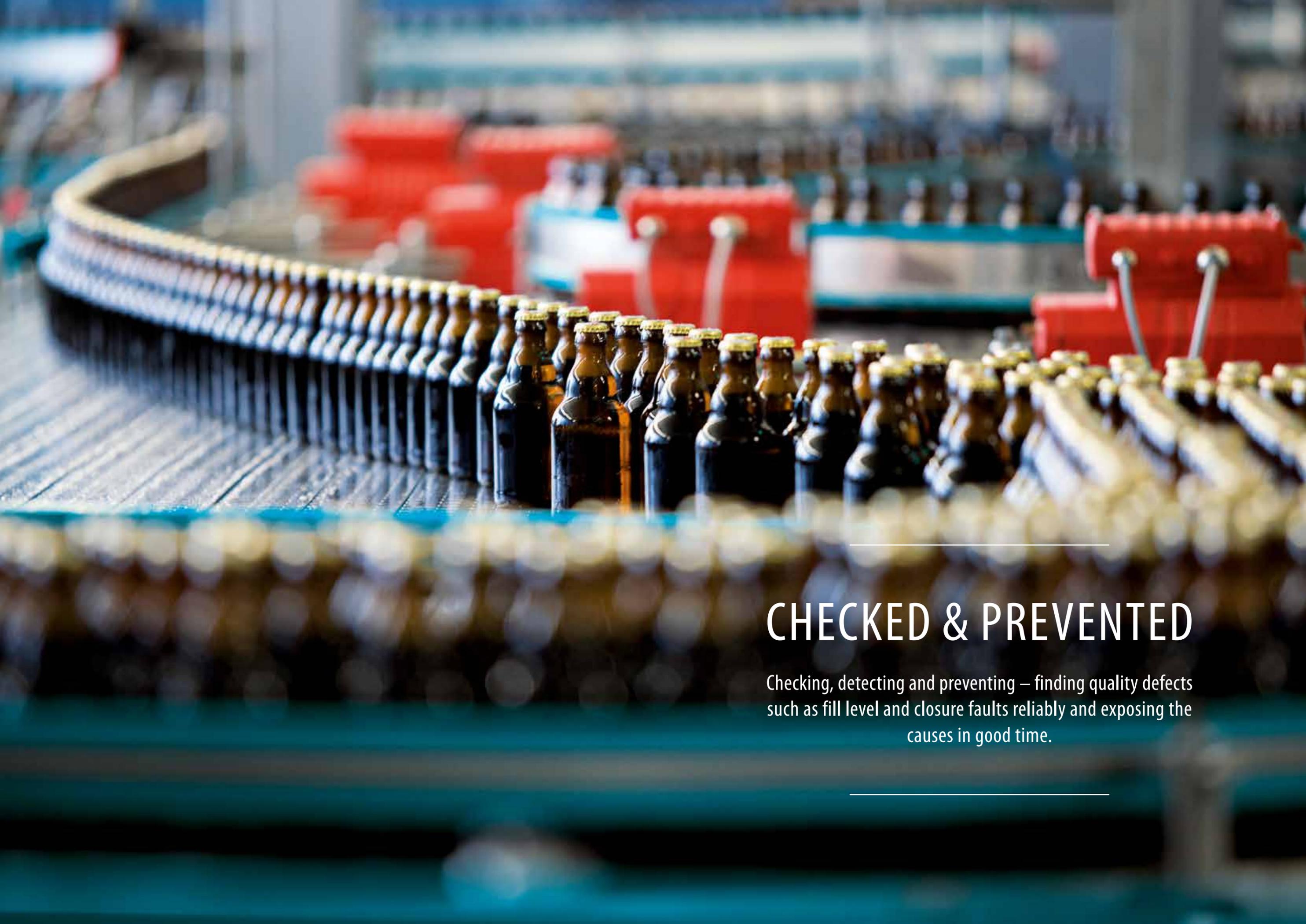
## SAFEGUARDING PRODUCT QUALITY? SIMPLY AUTOMATICALLY! SIMPLY EASY!

HEUFT *SPECTRUM II* systems work fully automatically most of the time. The rest is covered by HEUFT *NaVi* – with individual support and audiovisual step by step assistance. This

- saves time and resources
- increases the detection reliability
- safeguards error-free operation time

during the in-line quality inspection of empty and full containers. SIMPLY EASY!





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## CHECKED & PREVENTED

Checking, detecting and preventing – finding quality defects such as fill level and closure faults reliably and exposing the causes in good time.

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# Full container check & fill management.



## Up with product quality. Up with productivity.

Maximum product quality and maximum filler and closer efficiency: checking devices and fill management systems from HEUFT ensure both. Proven functions for checking and inspecting full containers safeguard product quality. Serial fault detection and continuous monitoring uncover losses in the performance of the filler / closer system before the efficiency and productivity of the complete filling line suffers.

### Highest product quality

Reliable identification and sorting out of underfilled, overfilled, unsealed and unlabelled bottles.

### Highest productivity

Direct localisation of sources of interference and error for early, preventive maintenance.

### Highest production quality

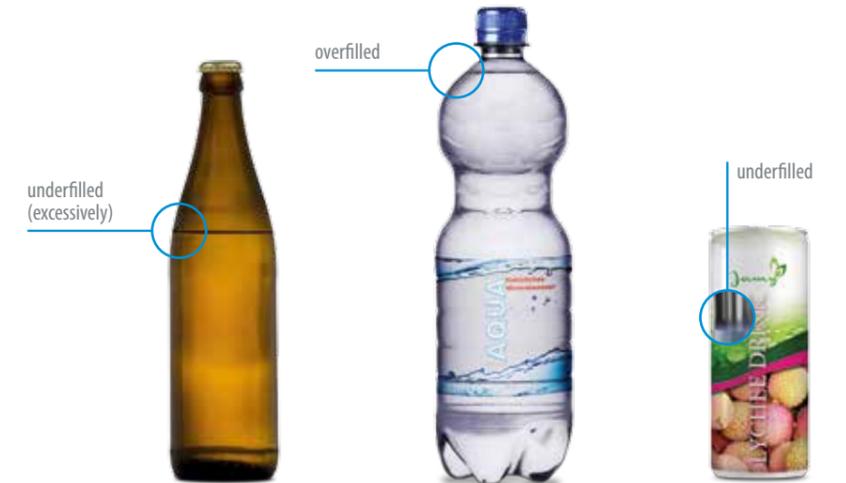
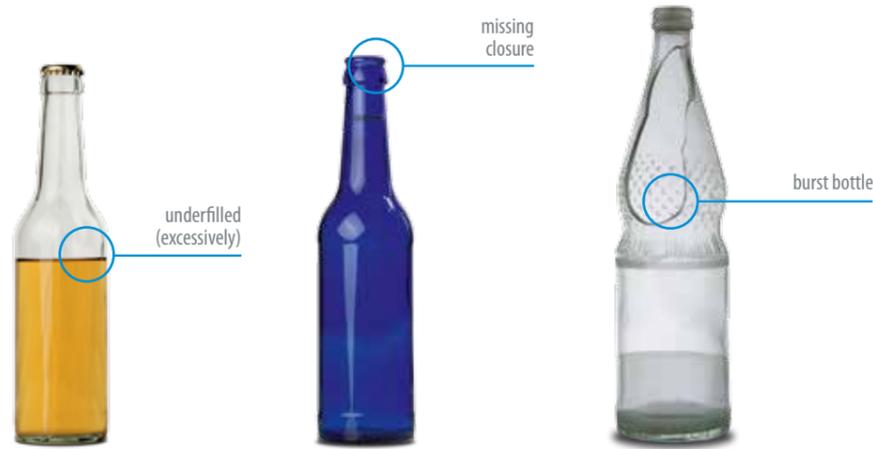
Continuous product tracking, reliable quantifying and targeted sampling.

### Highest availability

Reliable and easy to handle HEUFT systems.



**FULL QUALITY AND FULL PRODUCTIVITY:** finding fill level and closure faults reliably and locating their causes in good time.



# HEUFT SPECTRUM<sup>II</sup> VX

Fill management based on the HEUFT SPECTRUM<sup>II</sup>.

### Optimal product quality

Reliable detection of underfills and overfills, closure faults and burst bottles with the appropriate detection modules for every application.

### Preventive maintenance for maximum productivity

Early detection of output losses and fault sources due to consistent monitoring of the filler valves and closer heads.

### Evaluation and distribution

Fill value statistics, sampling and container distribution onto up to seven lanes.

### Superior operational reliability

Highly automated HEUFT SPECTRUM<sup>II</sup> system with self-explanatory HEUFT NaVi user guidance.



# HEUFT prime

Full container check of the new generation.

### High product quality

Reliable detection of deviations in the nominal filling quantity, incorrectly sealed, unlabelled and burst bottles using different detection technologies and modules for different requirements.

### Increased line efficiency

Serial fault detection and early localisation of faulty filler valves.

### No recalls

Reliable rejection of full containers with quality defects.

### Easy operation

Automatic brand changes and extensive audiovisual step-by-step assistance.



Discover more



Discover more

FULL CONTAINER CHECK



# HEUFT *basic*

Full container check for beginners.

**Reliable quality assurance**

Reliable detection of underfilled, unsealed, unlabelled or burst full containers, internal container pressure measurement and vacuum check.

**High output**

Early detection of serial faults and their causes.

**Specific sorting out and distribution**

Reliable fault rejection and distribution of containers onto two lanes.

**Compact and cost-effective**

Stand-alone device produced in series using the minimum of space.

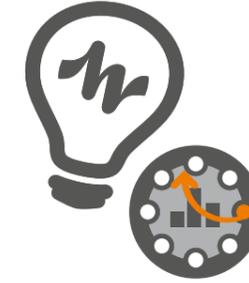


① Attention! ② Device status ③ Message specification ④ Message



Discover more

**72** up to  
containers per hour



Locator, quantifying and fill management

## HIGH PRODUCT QUALITY AND HIGH OUTPUT!

It is good to find fill level and closure faults whilst still on the filling line. This offers protection against complaints and expensive product recalls. However it is even better to expose the causes of such quality defects at an early stage.

**This prevents serial faults, line stoppages and costly productivity losses.**

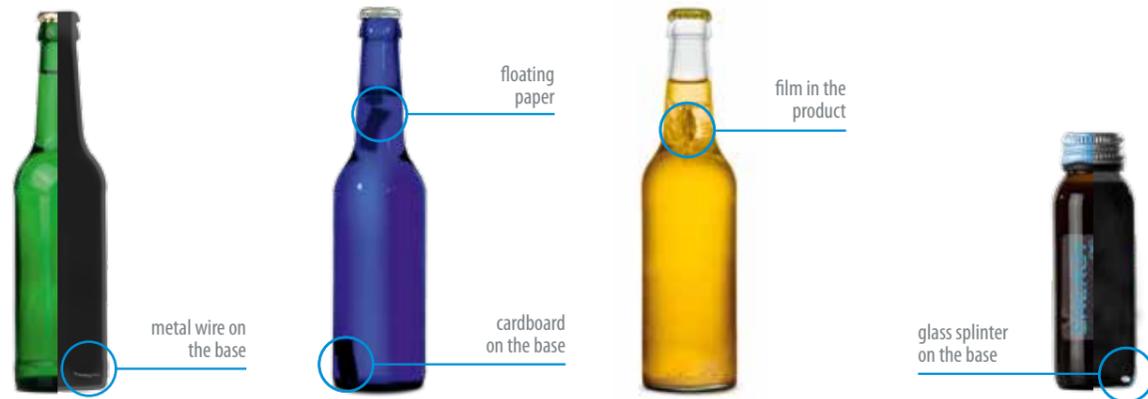
You can manage both with HEUFT! The devices for a full container check already have a locator function. It allocates detected faults to the corresponding filler valves and closer heads. A switch-off pulse is emitted when their number exceeds a certain, individually definable threshold value. Therefore interference can be eliminated in good time.

Fill management systems such as the HEUFT *SPECTRUM II VX* even go one step further – with an extensive filler and closer management. All the filler valves and closer heads are monitored continuously. Their respective performance is statistically evaluated.

**Therefore the causes of deviations in filling quantities and closure faults are obvious long before they fail completely.**

This gives you time for preventive maintenance before high false rejection rates and production downtimes can occur.

ENLIGHTENMENT



## HEUFT *eXaminer II* XOS

Foreign object inspection of the new generation with unique X-ray strobes.

### Wide range

From glass splinters, mould to transparent film: the reliable detection of high density and low density foreign objects in full containers.

### Complete inspection without blind spots

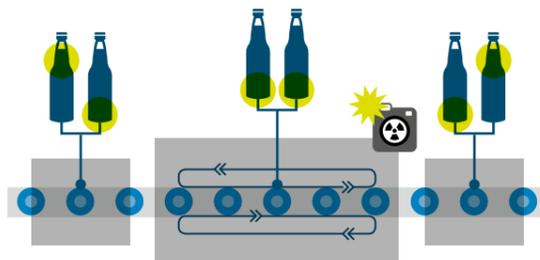
Continuous inspection of the total container volume.

### X-ray flash instead of a permanent beam

Sharp images with minimum radiation.

### Less false rejections

Highly precise product tracking and the HEUFT *reflexx<sup>2</sup>* real-time image processing system with learning ability for clearly differentiating between real and supposed safety risks.

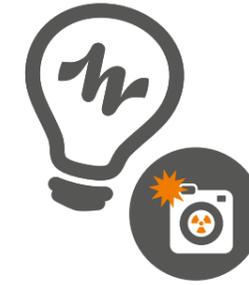


Discover more

**72** up to  
containers per hour

**X-RAY**  
110  $\mu$ Sv  
Flight Frankfurt – San Francisco  
**10  $\mu$ Sv\***

\* One HEUFT X-ray flash



Pulsed X-ray technology

## MAXIMUM PRECISION AND MINIMUM RADIATION!

HEUFT X-ray systems identify foreign objects, product faults and packaging defects both precisely and carefully. In contrast to the conventional X-ray scanner their unique pulsed X-ray technology only emits radiation at the moment when a product to be examined is in the inspection area. And that as an X-ray flash lasting just a thousandth of a second.

**The extremely short exposure time prevents motion blurs and reduces the average radiation exposure by a factor of 100.**

Therefore no product is exposed to a higher dose than is absolutely necessary. Thus an X-ray strobe only emits radiation for 36 seconds when inspecting 36,000 bottles per hour. As a result there is no emission whatsoever during 99% of the time. By contrast, conventional X-ray scanners emit radiation continuously for 60 minutes. That alone makes the pulsed X-ray technology unique.

**Combined with innovative full-field image converters it achieves an unprecedented dimension in range, speed and detection accuracy.**

Therefore oversized containers can also be examined continuously. And the size of the foreign objects which can be reliably identified has been halved!

ENLIGHTENMENT





# HEUFT squeezer II QS

Leakage check based on the HEUFT SPECTRUM II.

### Leakproof packaging and pure contents

Reliable detection of minute leaks in filled plastic containers for the sustainable safeguarding of packaging and product integrity.

### Full stability

Precise measurement of the internal pressure of the container for stable full containers which can be optimally transported and stored.

### Outstanding detection reliability

Comparative fill level detection in a compressed and non-compressed condition for maximum precision when identifying leaks.

### Safe and easy operation

Easy brand and format changes due to automatic adaptation of the transport and detection units as well as audiovisual step-by-step assistance.



Discover more

**72** up to  
containers per hour

**160 mm**  
maximum diameter

**6 cameras**  
for round and  
angular containers



Real-time product tracking and reject verification

## PRECISE MONITORING FOR FULL DETECTION RELIABILITY!

Where is the bottle? You should know this. The exact current location of a particular container on the line has to be known at all times. A reliable inspection and fault rejection is only then possible.

The distance covered and the position of each individual beverage packaging unit is triggered repeatedly and tracked precisely on the conveyor.

### Precise real-time monitoring is the guarantee for full detection reliability.

It locates the exact location of all the containers constantly with millimetre accuracy. This ensures that each individual one is really examined and each faulty one is actually removed.

### Permanent product tracking guarantees maximum accuracy when rejecting faults.

Only those bottles, cans and composite packages which really have to go are removed. The monitoring procedure even goes a step further: the integrated reject verification records immediately if a fault which should be rejected has not left the line yet.

ENLIGHTENMENT



## HEUFT *FinalView FO6*

Continuous final examination of the bottle dress.

### Perfect appearance at the point of sale

Highly precise identification of non-brand, incorrectly positioned, scratched, creased, misprinted and dirty labels.

### Clear marking

Detailed inspection of the design and lettering of all the labels, BBD verification with automatic date adaptation and barcode reading.

### No blind marks

Continuous 360° inspection without reflections or shadows even for unaligned containers.

### Genuinely sealed

Examination of the presence, colour and logos of the closures.



## HEUFT *FinalView II CAP*

Detailed closure inspection based on the HEUFT *SPECTRUM II*.

### Full closure safety and maximum product integrity

Continuous all-around inspection of closures and their safety elements.

### Superior detection accuracy

Reliable identification of non-brand, canted, defective, leaking and incorrectly positioned closures as well as the clear detection of thread faults and damaged tamper evident and neck rings.

### Individual and flexible

Different detection modules for specific requirements from finding bull-noses, inspecting colour logos to checking the closure alignment with millimetre precision.

### Highly automated and self-explanatory

Brand changes at the push of a button and audiovisual step-by-step assistance for utmost operational reliability.



**72** up to  
containers per hour



Illumination free of shadows and reflections

**1.4x**  
more performance

**1.5x**  
max. height difference

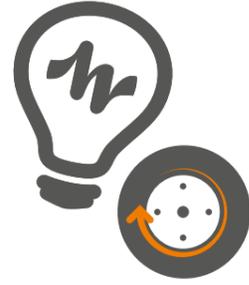
**1.2x**  
wider closure diameter

**6x**  
higher resolution

**2x**  
as many cameras



Discover more



HEUFT *TORNADO flex* servo technology  
**EXTREMELY EXACT AND  
 EXTREMELY EFFICIENT!**

First-class labelling results, particularly easy brand changes and considerably less wear and tear: servo labelling machines of the HEUFT *TORNADO flex* series achieve a maximum amount of precision, flexibility and profitability during the application of labels. The integrated servo technology carries out a fine bottle alignment with millimetre accuracy. Typical characteristics such as closures, embossing and even hairline mould seams are detected by camera and used as alignment marks for this purpose.

**Thus labels end up exactly where they should.**

In addition the servos ensure a specific, reproducible rotating cam for each individual container format for clean and crease-free labelling. The complex mechanical replacement of the individual cam segments is not necessary:

**brand and program changes are accomplished in next to no time!**

The same applies to the addition of new equipment variants. The servos have lifetime lubricated bearings and no gears making them practically wear-free. This makes their use in HEUFT labellers extremely economical.



# HEUFT *TORNADO W flex*

Wet glue labelling machine with servo-controlled fine bottle alignment.

**Immaculately dressed**

Highly precise, clean and crease free application of body, collar, back, neck ring and closure labels due to servo-controlled fine alignment of each individual bottle.

**Integrated check**

Checking the label presence during the same work process and straightforward integration of further modules for checking the quality of full containers.

**Uncomplicated brand and program changes**

Fast changeovers due to the automatic adaptation of the height of the machine head and servo-controlled, brand-related programmable rotating cam.

**Durable construction**

Minimum maintenance due to particularly robust, hardwearing construction in accordance with the hygiene-optimised HEUFT *CleanDesign*.



ENLIGHTENMENT

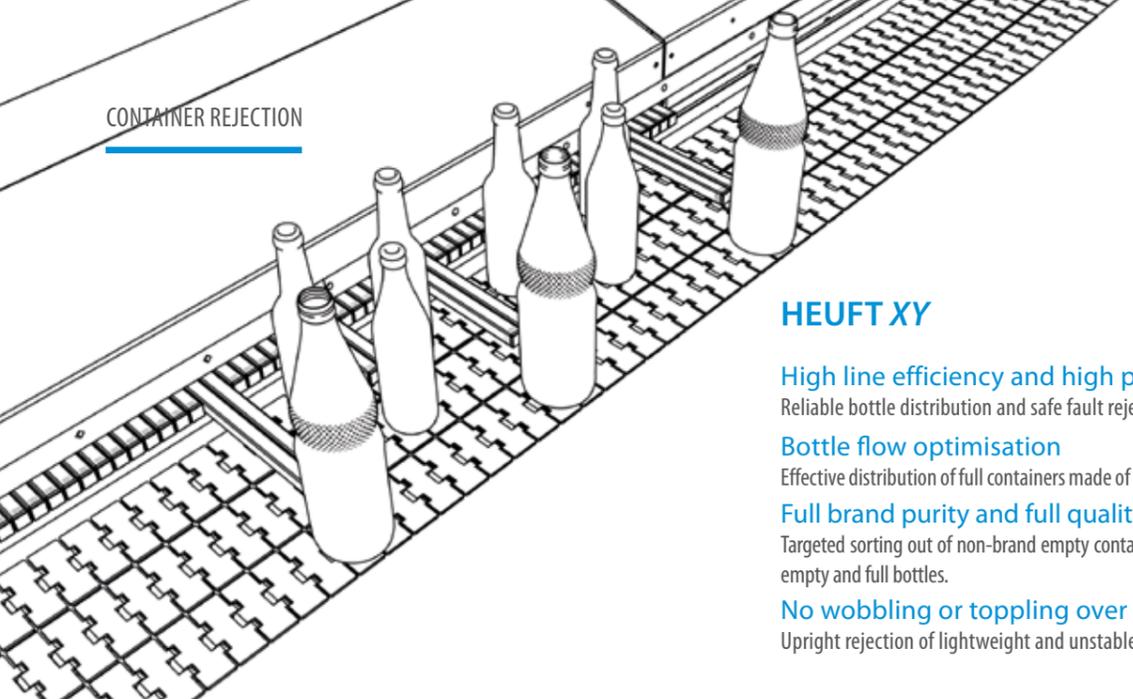
HEUFT *TORNADO flex* servo technology for a fine adjustment of each individual bottle with millimetre accuracy.



**72,000** up to  
containers per hour



Discover more



## HEUFT XY

### High line efficiency and high product safety

Reliable bottle distribution and safe fault rejection.

### Bottle flow optimisation

Effective distribution of full containers made of glass and PET onto up to four lanes.

### Full brand purity and full quality

Targeted sorting out of non-brand empty containers and careful rejection of faulty empty and full bottles.

### No wobbling or toppling over

Upright rejection of lightweight and unstable containers.



## The HEUFT *pusher*

## The HEUFT *mono*

## The HEUFT *e-Mono*

## The HEUFT *flip*

## The HEUFT *DELTA-FW*

## The HEUFT *DELTA-K*

The **HEUFT *pusher*** transports faulty full containers by means of a carefully calculated push to where they belong: in the rubbish. The **single-segment rejection system** works precisely and reliably even on high-speed lines with conveyor speeds of up to 2.5 metres per second and a maximal output of **130,000 containers** per hour. The compact HEUFT *pusher* shows its true qualities on filling lines for drinks cans.

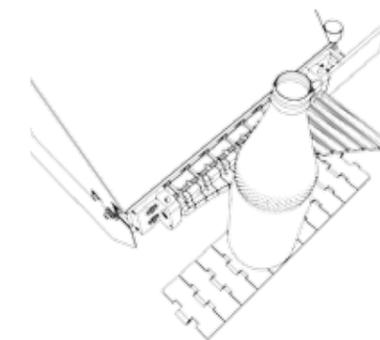
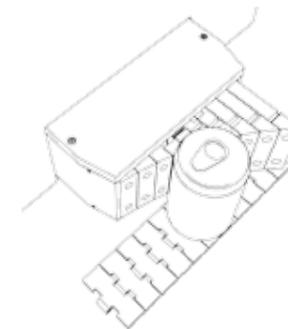
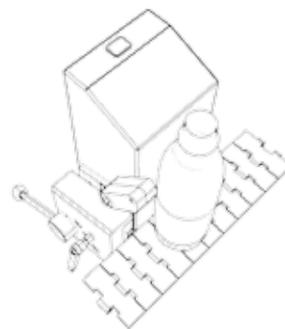
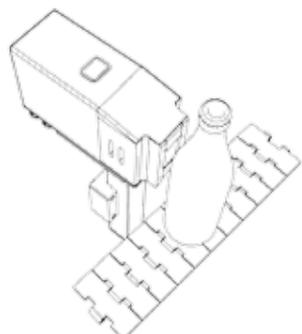
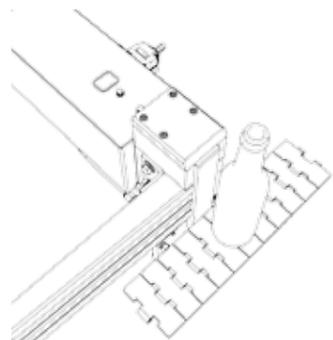
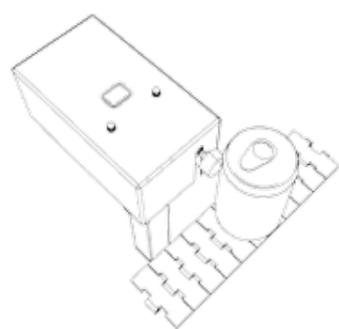
The **HEUFT *mono*** removes full and empty containers with safety and quality defects reliably. And carefully. A special guide rail on the single segment rejector compensates the static friction of the containers for this. Consequently full bottles can even be rejected upright using **minimum segment movement** and without falling over. The HEUFT *mono*, a cost-effective all-rounder, is suitable for line outputs of up to **72,000 containers** per hour.

The **HEUFT *e-Mono*** is the alternative in all cases where pneumatic rejections are not feasible – **economically or hygienically**. It does not need expensive compressed air and only uses electricity during the rejection process. The adaptation of its feed force to the respective weight makes the rejection of differently filled containers possible over the same distance. And that at line outputs of up to **180,000 containers** per hour!

The **HEUFT *flip*** removes all formats of empty and full bottles gently from the filling line. The unprecedented low mechanical load of the lifting cylinder which sets the rejection segment in motion is due to a cleverly designed joint construction. The **compact HEUFT *flip*** is ideally suited for the upright rejection of lightweight cylindrical beverage packaging for line outputs of up to **60,000 containers** per hour.

The **HEUFT *DELTA-FW*** rejects and distributes filled bottles and cans upright. Up to sixteen segments form a rejection curve along which they are gently guided. When a good container follows a faulty one only the first container is touched. The system carries out the reliable **rejection of complete series** with permanently extended segments. And that at line outputs of up to **150,000 containers** per hour.

The **HEUFT *DELTA-K*** is ideally suited for sorting out empties upright, distributing empty and filled containers as well as rejecting complete series. It has up to 16 segments which can be **folded out individually so quickly** that unsuitable containers can be rejected unproblematically without touching the preceding or subsequent containers. It only rejects that which has to go at line outputs of up to **72,000 containers** per hour.



# VISIT US IN OUR CUSTOMER CENTER



## SHOWROOM

Experience the complete range of HEUFT solutions in action: our arena with almost 1,000 square metres of exhibition space provides you with the perfect conditions to convince yourself of the superior performance of our inspection and quality assurance systems – even with live tests using products from your own portfolio upon request.

[Visit@heuft.com](mailto:Visit@heuft.com) | +49 2636 56 0



## TRAINING

The right know-how for reliable operation: experienced experts will provide you with all the knowledge you need in order to safeguard the functionality and availability of your HEUFT system sustainably in the HEUFT Training Center – not only theoretically but also directly at the device!

[Training@heuft.com](mailto:Training@heuft.com) | +49 2636 56 2671



## SERVICE

The nerve centre for a proactive customer service: our service control centre coordinates all the services on your premises from online remote maintenance with the HEUFT *TeleService*, the HEUFT *PhoneService* up to HEUFT *DirectService* visits – for a worldwide 24/7 support.

[Technical.Desk@heuft.com](mailto:Technical.Desk@heuft.com) | +49 2636 56 278



## CONFERENCES

From seminar room to auditorium for 199 guests: we are pleased to make our premises containing state-of-the-art multimedia equipment available to customers and partners for meetings and events – including a tour of the premises, specialist lectures and practical presentations!

[Welcome@heuft.com](mailto:Welcome@heuft.com) | +49 2636 56 0





## HEUFT conveyor

Efficient container transport.

### Optimal conveying

Fast, safe and careful transport of empty and full containers on one or several lanes.

### Problem-free integration

Customised adaptation to individual spatial conditions and requirements due to a flexible combination of a variety of standard modules and curve radii.

### Construction optimised for maintenance and cleaning

Robust components, adjustments without tools, no “dirty corners” and hardly any contact surfaces for germs.

### Comprehensive advice and planning

Full HEUFT expertise from situation analysis to the specific implementation of individual transport solutions and sustainably optimised line layouts.



Discover more

**HIGH-SPEED  
CONTAINER  
TRANSPORT**



## HEUFT beetec

Highly dynamic and energy-efficient conveyor drive.

### High efficiency and no frictional losses

Up to 88% efficiency and up to 30% less power consumption than conventional drives due to direct conversion of the energy used into precisely controlled movement and sustainable power factor correction.

### Long life cycle

Practically no wearing parts or oil changes due to sealed lifetime lubrication – minimum maintenance requirements.

### Hygienic, compact casing

No fans, no cooling fins, protected against dust and water jets, minimum noise emission.

### Versatile use

Highly effective real-time drive of single-lane and up to nine-lane multi-chain conveyors.



## HEUFT synchron TXI

Conveyor control system for a harmoniously adjusted, efficient container flow.

### Increased efficiency

Gentle, zero-pressure gap closing – proactive prevention of jams and line stoppages.

### Continuous supply

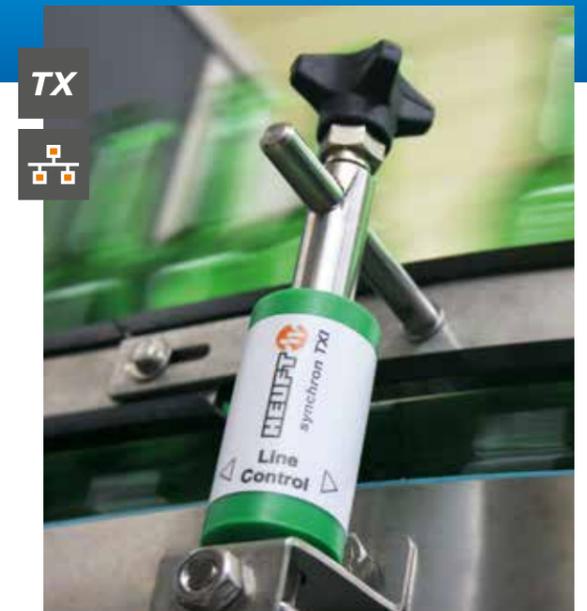
Single-lane blocking of master machines for maximum efficiency.

### Harmonious mass transport

Careful control of multi-lane conveyors, pressureless regulation of the buffer areas and reliable container distribution.

### Stress-free and quiet bottle flow

No glass defects caused by hard collisions and impact pressure, less scuffing and considerably reduced noise.



Proactive



No jams



Less noise

**72** up to  
containers per hour



Discover more



# HEUFT LX

Empty case inspection for drinks crates free of non-brand bottles and faults.



### Full brand purity

Reliable identification of non-brand bottles, clear differentiation between glass and PET and the consistent rejection of excessively mixed crates.

### Maximum safety

Full unpacking suitability and minimised risk of injury due to the clear detection of distorted cases, broken handgrips and foreign objects.

### Optimal appearance

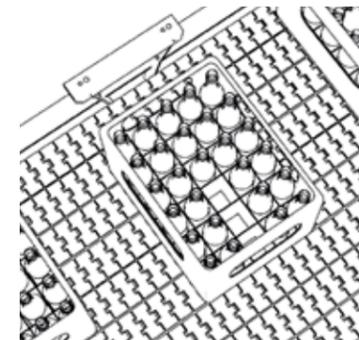
Reliable detection of foreign crates due to precise colour and logo check.

### Minimum false rejection rate

Accurate rejection due to the combined evaluation of all the measuring results using fuzzy logic (see the infographic).

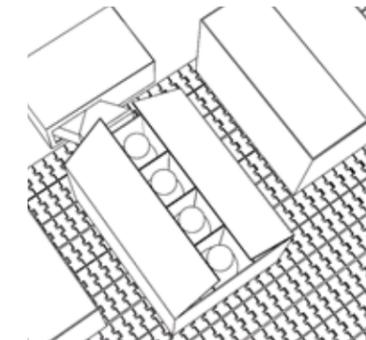
## The HEUFT *xcase*

The **HEUFT *xcase*** creates brand purity and quality along returnable lines. Its load-dependent control system which adapts the force of the rejection impact to the weight of each individual case removes non-brand and faulty empty crates smoothly from the filling line. Crates of varying weights are therefore each rejected an equal distance.



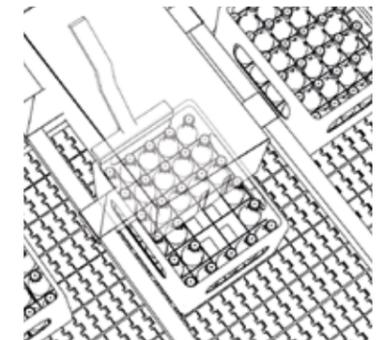
## The HEUFT *maxi-flip*

The **HEUFT *maxi-flip*** rejects empty, half-full or completely full cases each an equal distance onto parallel conveyor chains. Its rejection segment is activated for a longer time for heavy crates or cardboard boxes than for lighter ones. A complex mechanical changeover for different types of cases is not necessary.



## The HEUFT *maxi-laner*

The **HEUFT *maxi-laner*** is the space-saving alternative to the HEUFT *maxi-flip*. The compact system which is installed directly above the conveyor is also impressive with a load-dependent control system for the rejection of different cases. Also possible: a reliable distribution onto up to three transport lanes.



Discover more

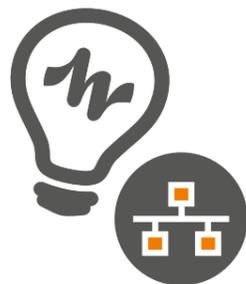
up to **7,200** cases per hour

100%  
Reference

85%  
Good product

42%  
Fault

Fuzzy logic: comparing apples with pears!



HEUFT network technologies

## EVERYTHING NETWORKED AND EVERYTHING IN VIEW!

Transferring information, recording operating data, analysing the performance of complete filling lines and implementing targeted remote maintenance. HEUFT systems are equipped with future-proof network interfaces so that this all works in real time.

**Open, standard and cross-platform protocols generate maximum efficiency and overview.**

All the devices and machines on the line speak the same language and form a network into which office computers can also be integrated without a problem.

Operating and production data, shift records as well as productivity, fault and HACCP limit value analyses are not only available at the HEUFT systems themselves but also everywhere in the network at the same time.

**Interference, safety risks, quality problems and efficiency losses are therefore identified immediately.**

A firewall protected direct connection to the HEUFT *TeleService* implements competent remote maintenance all around the clock in order to rectify these in good time.

**The result:** optimal efficiency and quality management.

ENLIGHTENMENT

## HEUFT *PROFILER advanced*

Production data acquisition and line analysis.



### Performance analysis in real time

Continuous recording, sustainable safeguarding and specific evaluating of all the operating data and key figures of all the devices and machines of a filling line in accordance with the guidelines of the Weihenstephan standards co-developed with HEUFT.

### More production quality and more productivity

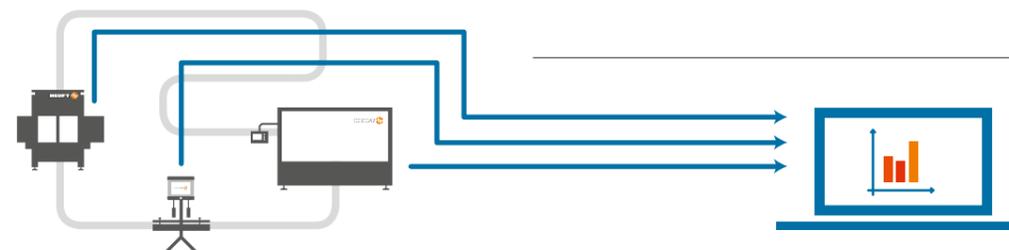
Direct exposure of error sources, weak points and interference using smart tools e.g. logic and buffer analysis, consumption metering and HACCP limit value monitoring.

### Full overview

Up-to-date status information always available with all the operating figures of each individual device due to process designer for visualising the complete line.

### Individual preparation

Tables and graphs of all the operating states; standard and customisable reports with specially prepared operating figures.



Discover more

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## LIFE CYCLE PARTNERSHIP

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Those who choose HEUFT receive more than innovative systems which ensure product quality and line efficiency reliably. In HEUFT you have a strong partner at your side providing professional support from the very beginning.

We will bring in our full **expertise** before implementing turnkey solutions. Proactive **support** is provided by us at all times after commissioning. We simply always offer competent **enlightenment** regarding the possibilities and limits of an in-line quality inspection. The result: a reliable partnership which already begins prior to the purchase, extends over the complete life cycle of your HEUFT systems and ensures their full **performance** sustainably.

This minimises the total cost of ownership (TCO) and generates simply more added value, competitiveness and productivity with maximum product quality!



# GLOBAL PLAYER

● HEUFT Subsidiaries ● HEUFT Partners



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