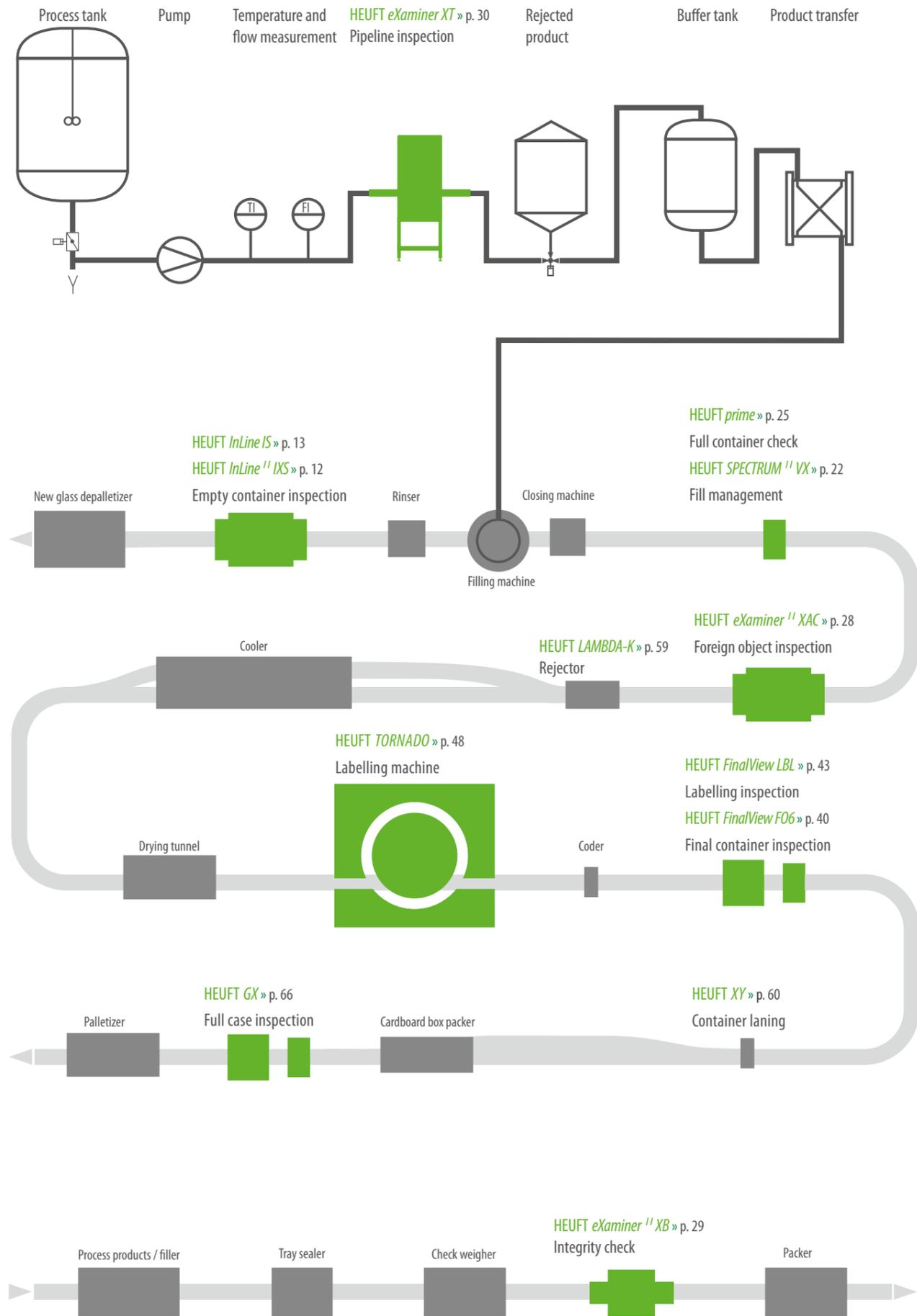


HEUFT PRODUCTS
for the food industry

YOUR PRODUCT.
TRUE INSPECTION.
SAFEGUARDING
PERFECT QUALITY.

HEUFT IS SYSTEMTECHNIK

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

EMPTY CONTAINER INSPECTION

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FULL CONTAINER CHECK & FILL MANAGEMENT

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LEAKAGE CHECK

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CASE REJECTION

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COMPANY

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COMPANY

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ERROR-FREE & SAFE

Checking, inspecting and protecting – already safeguarding the quality of food jars and cans before the filling process.

Our devices for an empty container inspection

From empty can to X-ray empty jar inspection.

Out with faulty primary packaging material. In with safety and quality.

Whether wide neck jar, smoothie bottle or food can: perfect empty containers are essential in order to keep the quality and product safety of food at the highest level. Compact HEUFT systems make sure that only perfect primary packaging is filled. The continuous complete inspection of each individual empty container using different detection technologies uncovers safety and quality defects reliably. The respective empty packaging is rejected consistently.

Effective protection against product recalls and liability cases

Reliable detection and targeted rejection of faulty empty containers before the filling process.

Maximum detection accuracy with a minimum false rejection rate

Precise identification of foreign objects, contamination, inclusions, 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

Unique 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 container inspection redefined: unique X-ray strobes for unparalleled detection reliability.



From base to finish

Continuous optical complete inspection of each individual empty container without blind spots – powerful finish inspection especially for wide neck jars.

Unparalleled detection reliability

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

Simply easy

Maximum automation and self-explanatory audiovisual user guidance.

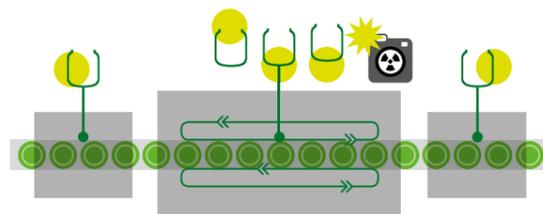
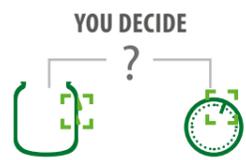
Smart and capable of learning

Sustainable teach-in of individual quality requirements.



Discover more

up to
1,400
containers per minute



HEUFT *InLine* IS

Empty container inspection with servo technology.



Covering everything

Continuous base, sidewall and finish inspection of wide neck jars and other food containers.

Precise and unerring

High detection accuracy and low false rejection rate.

Exact and efficient

Servo-controlled fine container alignment for even more precision during the all-around inspection and automatic adaptation of the transport and detection units for straightforward brand and format changes.

Space-saving and clean

Compact construction (actual floor space < 1 m²) in accordance with the hygiene-optimised HEUFT CleanDesign.



EIGHT SIDE VIEWS
for coverage of up to 720°

up to
1,400
containers per minute



Discover more



HEUFT *reflexx* | HEUFT *reflexx*² 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 optimally tailored to food inspection tasks:

the HEUFT *reflexx* safeguards product quality and output.

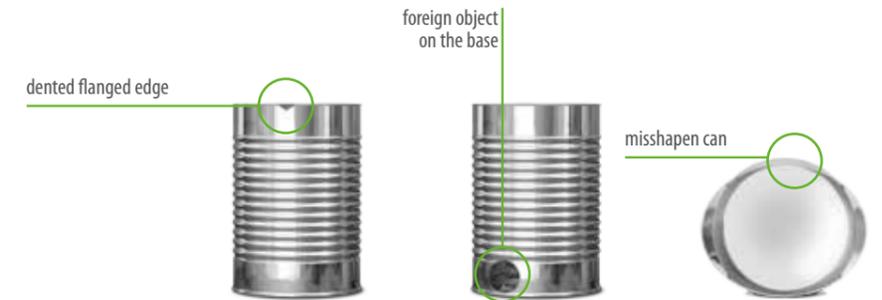
Because the image processing system with multi-processing capabilities carries out a specific object detection. It combines several photographs in real time into extremely clear, continuous detection pictures for this and evaluates them directly. Faults are reliably detected even during high-speed operation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

What this is exactly lies in your hands with the new generation of image processing. In addition to the specific detection of the most varied objects the HEUFT *reflexx*² also carries out their individual classification: you can select them using the touchscreen and characterise them yourself as either good or unwanted.

The HEUFT *reflexx*² 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.

ENLIGHTENMENT



HEUFT *canLine*

Empty can inspection for increased product safety and productivity.



Maximum productivity

Effective protection against obstructions when filling and sealing food cans.

Maximum product safety

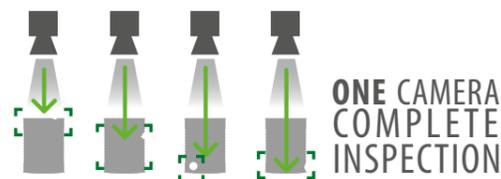
Reliable detection of contamination and soiling inside the can.

Top performance due to depth of field

Precise identification of indentations and defects at the flanged edge, contaminants on the inner wall, 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.





Inspecting empty and full containers automatically



Changing brands automatically and assisted



Detecting quality defects automatically



Rejecting faulty products 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 the 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!

ENLIGHTENMENT



CHECKED & PRECAUTIONS TAKEN

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

Our devices for a full container inspection

From fill level detection to filler / closer 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 filling and closing machine before the efficiency and productivity of the complete filling line suffer.

Highest product quality

Reliable identification and removal of underfilled and overfilled, unsealed and unlabelled containers.

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^{II} VX

Fill management based on the HEUFT SPECTRUM^{II}.

Optimal product quality

Reliable detection of underfills and overfills, closure and label faults.

Preventive maintenance for maximum productivity

Early detection of losses in performance and sources of error 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^{II} system with self-explanatory HEUFT NaVi user guidance.



Discover more

up to
1,650
containers per minute



50+ MODULES
1,000,000+
POSSIBILITIES



HEUFT SPECTRUM VX

Quality check and fill management.

High product quality

Reliable detection of quality defects such as deviations in filling quantity, closure faults and missing labels.

Continuous monitoring

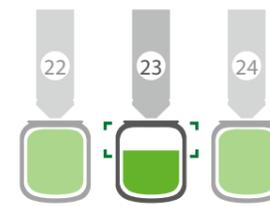
Permanent supervision of filler valves and closer heads for the early identification of sources of interference.

More output

Effective tool for preventive maintenance.

Careful laning

Distribution of the container flow onto up to seven lanes.



22 23 24
FILLER AND CLOSER
MANAGEMENT

up to
1,400
containers per minute



Discover more



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 food 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 expensive productivity losses.

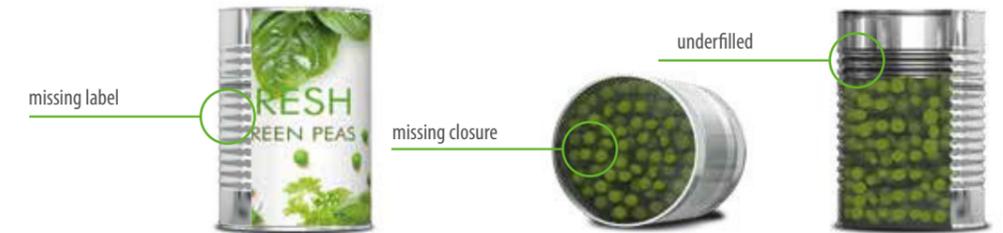
You can manage both with HEUFT! The devices for a full container check already have a locator function. It allocates detected faults to the corresponding filler valves and closer heads. A switch-off pulse is emitted when their number exceeds an individually definable threshold value. Therefore malfunctions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

Fill management systems such as the HEUFT *SPECTRUM " VX* even go one step further - with an extensive filler and closer management: all the filler valves and closer heads are monitored continuously.

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 occur.

ENLIGHTENMENT



HEUFT *prime*

Full container check of the new generation.

Compact quality check

Reliable detection of underfilled / overfilled, unsealed and unlabelled food containers.

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.



up to 1,200
containers per minute



Discover more

Our devices for a foreign object detection

From metal detection to glass in glass detection.

Contamination inside. Product out.

Glass splinters, small pieces of metal and stones: contamination with foreign objects is one of the most frequent causes of product recalls. It poses a serious health hazard to the consumer. You can eliminate this with HEUFT. Contaminated products and packaging are identified reliably whilst still on the line. Our unique pulsed X-ray technology achieves this with unrivalled care and precision. Even faults barely noticeable with the naked eye hidden behind product and packaging structures cannot escape the inspection. This creates maximum product safety.

Safe products

Precise identification of foreign objects which are hazardous to health.

Protection against product recalls

Timely rejection of contaminated products.

Smart demarcation

Lowest false rejection rate due to a clear distinction between real and supposed faults.

Full transparency

Unique X-ray strobes for the reliable identification of dangerous foreign objects with minimum radiation.



MAKING THE INVISIBLE VISIBLE:
identifying dangerous foreign objects simply reliably.



HEUFT eXaminer II XAC

Full container inspection with pulsed X-ray technology based on the HEUFT SPECTRUM II.

Prevention of product recalls and liability cases

Continuous complete inspection of the total container volume for a reliable in-line identification of dangerous foreign objects such as metal fragments or glass splinters.

Maximum detection reliability

Sharp, high-resolution X-ray images with minimum radiation.

A hundred per cent examination of large size containers

Full coverage due to particularly large sensitive detection surface.

Self-explanatory and simply easy

Error-free operation due to maximally automated HEUFT SPECTRUM II platform and self-explanatory audiovisual user guidance.



Discover more

up to **1,200** containers per minute



HEUFT eXaminer II XB

Top-down inspection with pulsed X-ray technology based on the HEUFT SPECTRUM II.

Effective injury and recall prevention

Reliable foreign object detection during the complete inspection of filled primary, secondary and tertiary packaging as well as solid products.

Reliable integrity check

Certain detection of incomplete products and packaging as well as defects.

Superior technologies and maximum automation

Optimised pulsed X-ray technology and maximum detection accuracy with minimum radiation. Highly automated HEUFT SPECTRUM II platform with self-explanatory user guidance.

Flexible expansion for even more performance

Multi flash option for the complete inspection of even larger products. Division of the conveyor for the parallel inspection of two smaller products at the same time.



LEAD SCREENS ARE NOT REQUIRED

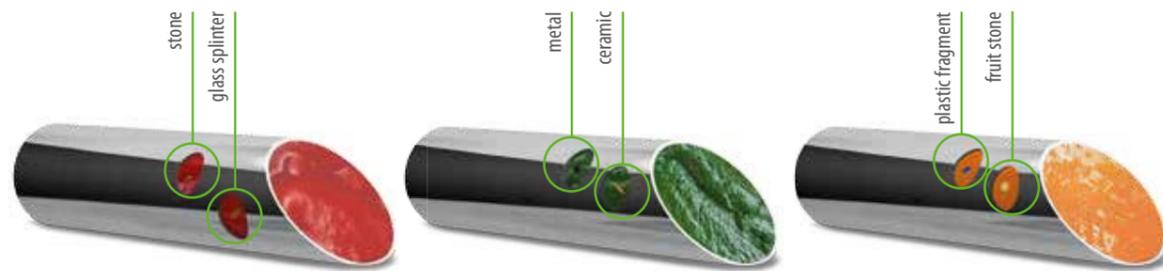
IDEAL FOR LIGHT-WEIGHTS



up to **1,200** containers per minute



Discover more



HEUFT *eXaminer XT*

High-speed pipeline inspection for the reliable detection of dangerous foreign objects in a liquid or paste-like product mass.



Careful examination even before packaging

Precise X-ray pipeline inspection of sauces, jams, cheese spreads, sausage meat and other unpackaged products.

Reliable foreign object detection

Unique X-ray strobes for a careful, speed-independent identification of minute objects made of glass, stone or plastics such as PTFE.

Genuine detection and sensitive separation

Safe metal detection independent of the product's own signal. Clear distinction between critical faults and harmless product structures.

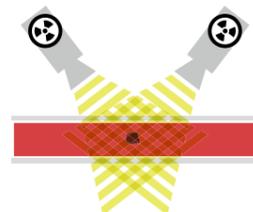
Dual beam technology for even more precision

Optional integration of an additional X-ray strobe for a 3D reconfirmation of the result of the examination from another perspective.

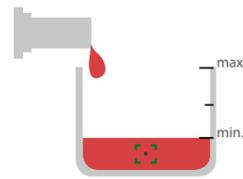


Discover more

2.3 m/s
Flow speed



3D
reconfirmation



REDUCTION
in false rejections



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 really 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 reflected X-rays by a factor of 1,000.

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 containers 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.

The size of the foreign objects which can be reliably identified has been halved!



ENLIGHTENMENT

Our devices for a leakage check

From internal container pressure measurement to the identification of microleaks.

Leak identified. Danger eliminated.

Leaks, stress cracks and microcracks: such leaks have no place in freshly filled food containers made of plastics such as PET or HDPE. They not only threaten the integrity and stability of the packaging but also the microbial purity and therefore the edibility and shelf life of the product contained in it. You can expose leaking primary packaging material in-line and reject it reliably before it reaches the market and can pose a threat to the consumer with the leakage checks of the HEUFT *squeezer* series.

High packaging quality and high product safety

Sustainable safeguarding of the container stability and effective protection against microbially contaminated food.

Full shelf life for full enjoyment

Effective prevention of premature spoilage of the product.

Clean surroundings

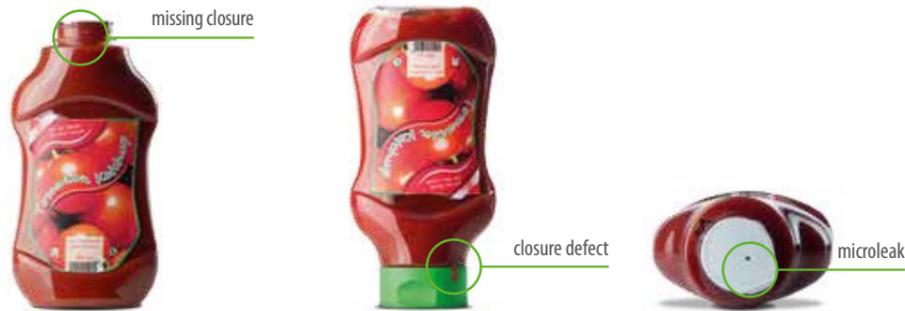
No sticky contamination on the line, during transport or at the point of sale caused by an unwanted product leakage.

Maximum product quality

Correct nominal filling quantity and high closure integrity.



NO LEAKS AND EVERYTHING SECURE:
uncovering leaks in good time.



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 non-compressed and compressed condition for maximum precision when identifying leaks.

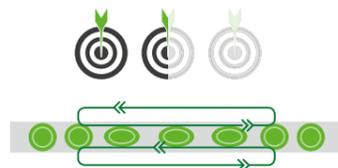
Reliable and easy operation

Maximally automated HEUFT SPECTRUM II system with self-explanatory audiovisual HEUFT NaVi user guidance.



Discover more

up to
1,200
containers per minute



4x MODULES

HEUFT squeezer QA

Leakage check with brand changes at the touch of a button.



Safe container and pure product

Leakage check for germ-free, microbiologically harmless products.

Real stability

Internal container pressure measurement for stable packaging.

Precise detection

Reliable detection of leaks and cracks due to comparative fill level detection.

Compact leakage check

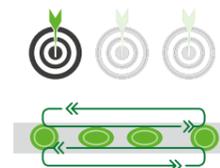
Optional integration of additional detection modules for checking the closure integrity.



MODULE



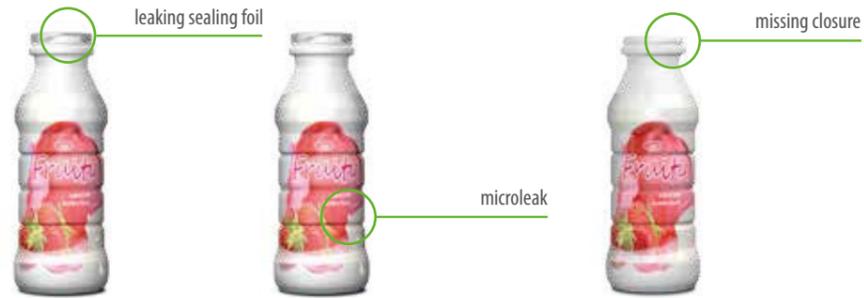
space-saving
LESS THAN **1m²**



up to
1,200
containers per minute



Discover more



HEUFT *squeezer QL*

Leakage check for the clear identification of minute microleaks in plastic containers.

Total food safety

Reliable identification of minute leaks due to internal container pressure measurement and comparative fill level detection.

Maximum detection reliability

Extra long inspection path for an even more reliable identification of hardly visible leaks.

Microbial purity

Specific rejection of leaking packaging with contents which could be germ-laden.

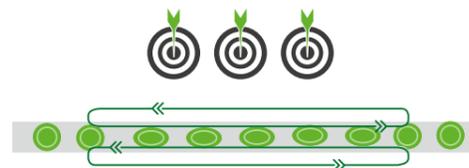
Automatic brand changes

Servo-controlled adaptation of the transport and detection units at the touch of a button.



Discover more

up to
1,200
containers per minute



MODULE



Our devices for an outer appearance inspection

From label to closure inspection.

Impeccably labelled. Securely sealed.

Baby food jars, snack packaging and ketchup bottles: an attractive presentation of the full food containers is what counts at the point of sale (POS) as well as their complete integrity. Missing, incorrect or non-brand labels and designs impair the appearance of the packaging and at the same time the safety of the end product. Closure defects threaten the microbial purity and the harmless consumption of sensitive food. You can find such faults before the customer does with the HEUFT *FinalView* solutions for an extensive label, design and closure inspection.

Attractive appearance

A thorough final inspection for flawless labels and an irresistible packaging design at the POS.

High informational value

Complete all-around inspection for the timely identification of non-brand, incorrectly positioned or faulty labels and designs as well as the reading and verification of applied lettering and product coding.

Full closure safety

Careful complete inspection for the precise detection of missing, canted, non-brand as well as faulty closures and safety elements.

Flexible solutions for maximum product quality

From a fully equipped complete system to a compact stand-alone module at the conveyor: different versions for specific requirements.



PERFECT DRESS:
examining labels, designs, markings and closures carefully.



HEUFT *FinalView FO6*

Continuous final inspection of the dress of filled food containers.

Flawless appearance at the POS

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

Clear marking

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

No blind spots

Continuous 360° inspection without reflections or shadows even when the containers are not aligned.

Genuinely sealed

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

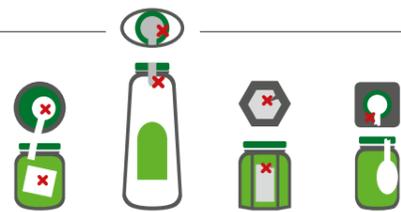


TX



Discover more

up to
1,200
containers per minute



Illumination free of shadows and reflections



Real-time product tracking and reject verification **PRECISE MONITORING FOR FULL DETECTION RELIABILITY**

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

The distance covered and the position of each individual food package on the conveyor is triggered repeatedly and tracked precisely.

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

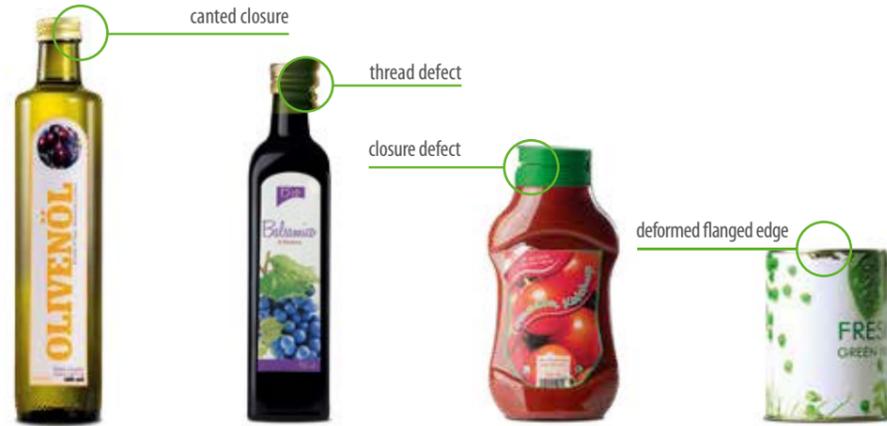
It locates the exact whereabouts of all the containers constantly with millimetre accuracy. This ensures that each individual one is really examined and each faulty one is actually removed.

Permanent product tracking guarantees maximum accuracy when rejecting faults.

Only those jars, cans and food products 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 II* CAP

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

Full closure safety and maximum product integrity
Continuous all-around inspection of container closures and their safety elements.

Superior detection accuracy
Reliable identification of non-brand, canted, defective, leaking and incorrectly positioned closures. Clear detection of thread faults, faulty tamper evident opening tabs and damaged tamper evident and neck rings.

Individual and flexible
Different detection modules for specific requirements from a presence check, colour logo inspection to closure alignment examination with millimetre precision.

Highly automated and self-explanatory
Maximum automation and audiovisual step-by-step assistance for utmost operational reliability.



HEUFT *FinalView LBL*

Detailed label inspection for perfectly dressed end products.

Flawless labelling
Continuous complete inspection of all the labels and design elements. Reliable identification and rejection of incorrectly dressed food containers.

Maximum detection reliability
Reliable detection of crooked, non-brand, creased and torn labels as well as the clear identification of design faults due to superior optical technologies and the HEUFT *reflexx²* image processing system with teach-in assistant.

Optimal adaptation
Adaptive LED illumination for detection pictures without shadows or reflections and optional add-on cameras for different container types and sizes.

Uncomplicated brand changes
Automatic adjustment of the transport and detection units.





Station 2

PERFECTLY DRESSED & TRULY ATTRACTIVE

Aligning, applying and attracting attention - labeling food containers accurately and tidily.

Our labelling machines

From wet glue to wrap-around labelling.

Labels on. Appearance perfect.

Attractive labels are important information carriers and make your food containers real eye-catchers at the point of sale (POS). For this they have to be applied with a precise fit, accurately, tidily and without creases. You can achieve this with the HEUFT *TORNADO* labelling machines! They provide outstanding precision during the application of wet glue, hot glue, self-adhesive and wrap-around labels. Durable components ensure highest reliability and quality. Changeovers, cleaning and maintenance work are dealt with rapidly and smoothly. Integrated inspection modules safeguard the quality of the final product sustainably. The HEUFT *TORNADO flex* servo technology achieves maximum labelling quality and particularly uncomplicated brand changes.

Optimal dress

Precisely fitting labelling for perfectly dressed food containers.

High level of reliability

Solid construction with low maintenance.

Full diversity

Reliable application of wrap-around, self-adhesive, wet glue and hot glue labels.

Servos for even more performance

Maximum precision and automation with optionally integrable HEUFT *TORNADO flex* technology.



TIDILY AND ACCURATELY LABELLED:
applying labels exactly and without faults.



HEUFT *TORNADO W flex*

Wet glue labelling which keeps what it promises.

Immaculately dressed

Highly precise, clean and crease free application of body, collar, back, neck ring and closure labels.

Integrated check

Examination of the label presence in the same process and straightforward integration of further modules for checking the quality of full containers.

Easy changeovers and low maintenance

Straightforward brand and program changes due to the automatic adaptation of the machine head height. Hard-wearing construction in accordance with the hygiene-optimised HEUFT *CleanDesign*.

Servo technology for even more precision and efficiency

Optional HEUFT *TORNADO flex* servo technology for a fine millimetre exact alignment of each container to be labelled and for even easier brand changes due to a brand-related programmable rotating cam.

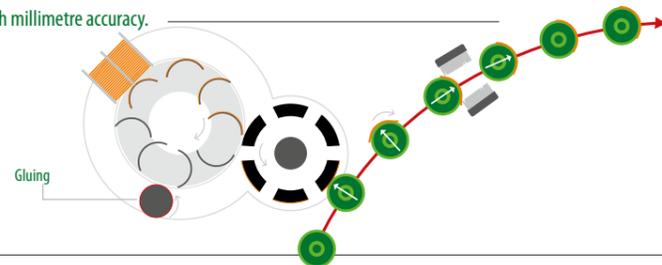


HEUFT *TORNADO flex* servo technology for a fine adjustment of each individual bottle with millimetre accuracy.



Discover more

up to
1,200
containers per minute



HEUFT *TORNADO S*

Self-adhesive labelling that sticks.

Good adhesion

Precise application of self-adhesive collar, body, back and neck ring labels.

Immediate quality check

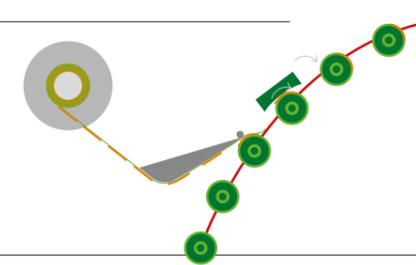
Examination of the label presence in the same process and optional extension of additional detections for checking the quality of full containers.

Easy brand changes and straightforward maintenance

Fast changeovers due to the automatic adaptation of the machine head height and change part replacement without the use of tools. Hard-wearing construction in accordance with the HEUFT *CleanDesign*, central lubrication for all the moving parts and easy replacement of the centring bells.

More flexibility and fineness with servos

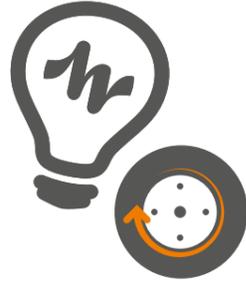
Optional HEUFT *TORNADO flex* servo technology for a brand-related programmable, particularly easy to adjust rotating cam and fine container alignment with millimetre precision.



up to
800
containers per minute



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 servo technology carries out a fine container 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 shape 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.

ENLIGHTENMENT



HEUFT *TORNADO R*

Wrap-around labelling with servo technology.

Perfect all around

Application of accurately fitting and crease free wrap-around labels due to a servo-controlled toothed belt for precisely regulating and compensating the rotating speed.

Integrated check

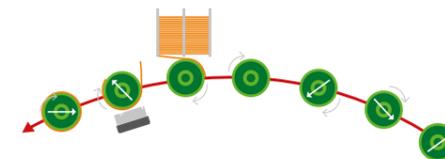
Examination of the label presence during the same work process and straightforward integration of further quality control modules.

Easy changeovers

Fast and easy brand changes due to servo-controlled, brand-related programmable belt drive, automatic adjustment of the machine head height and easy change part replacement without the use of tools.

Minimum maintenance

Durable components, central lubrication for all moving parts and simple exchange of the centring bells.



up to
1,000
containers per minute



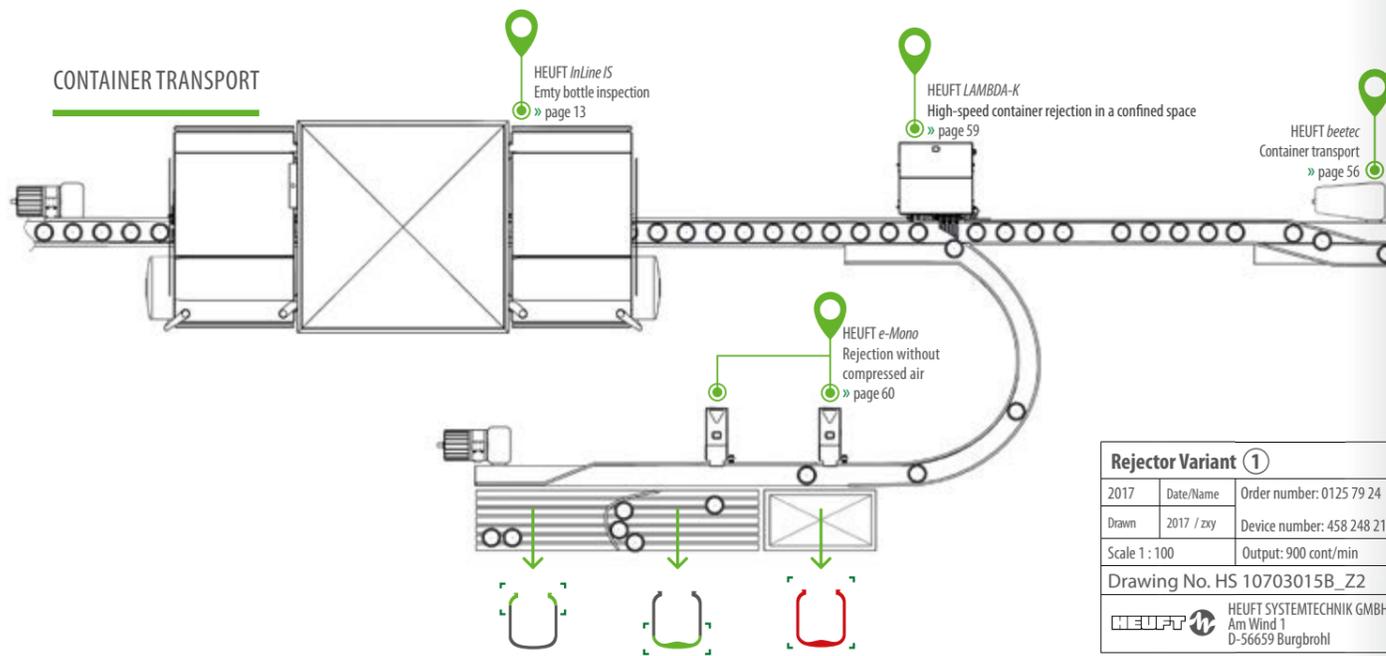
Discover more



GENTLE & EFFICIENT

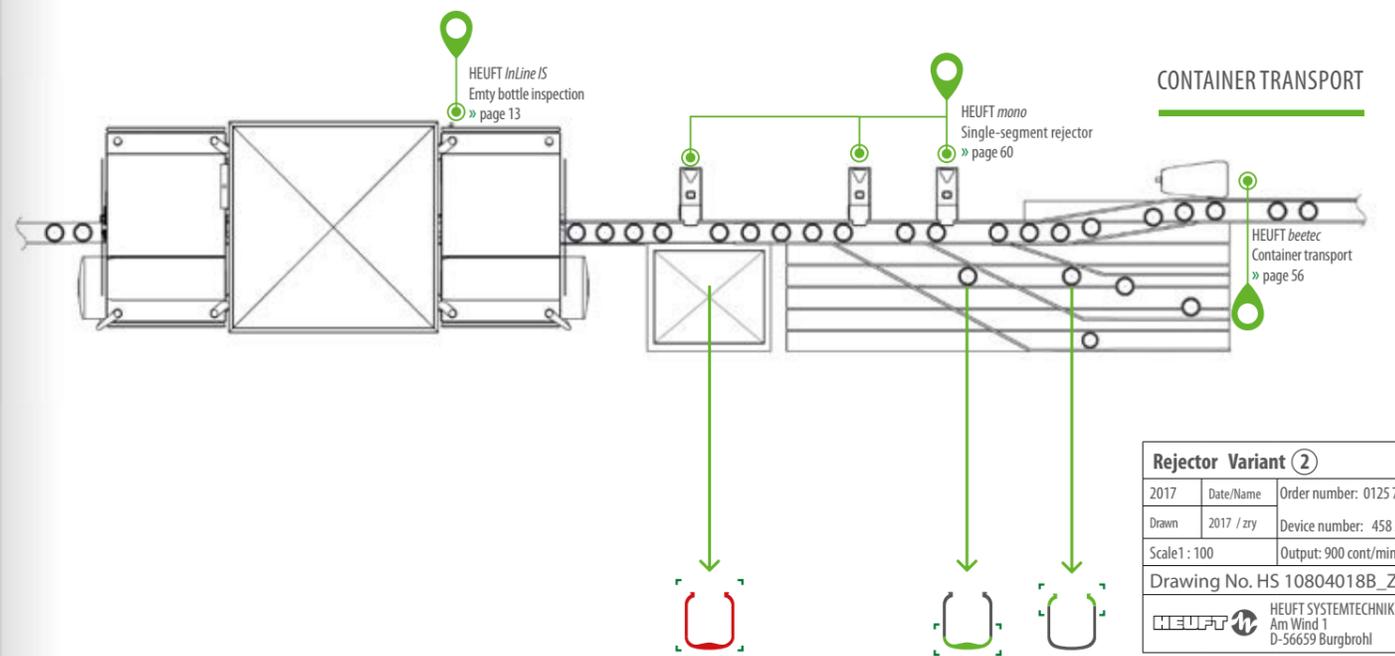
Powering, conveying and regulating -
transporting food and packaging quickly, carefully
and efficiently along the line.

CONTAINER TRANSPORT



Rejector Variant ①		
2017	Date/Name	Order number: 0125 79 24
Drawn	2017 / zxy	Device number: 458 248 217
Scale 1 : 100	Output: 900 cont/min	
Drawing No. HS 10703015B_Z2		
HEUFT SYSTEMTECHNIK GMBH Am Wind 1 D-56659 Burgbrohl		

CONTAINER TRANSPORT



Rejector Variant ②		
2017	Date/Name	Order number: 0125 79 24
Drawn	2017 / zxy	Device number: 458 248 217
Scale 1 : 100	Output: 900 cont/min	
Drawing No. HS 10804018B_Z3		
HEUFT SYSTEMTECHNIK GMBH Am Wind 1 D-56659 Burgbrohl		

Our container transport solutions

From conveyor drive to fault rejection.

No impact pressure and no gaps. Full line efficiency.

Continuous, careful and without pressure: this is what really matters regarding the container flow along your filling and packaging line. After all, the master machines should be continuously supplied, jams prevented and all the products transported fast, safely, smoothly and quietly. You will achieve a harmonious, efficient container flow without interference or impact pressure, even in the high-speed section and in a confined space, with drives, conveyors and conveyor control systems from HEUFT. This protects the quality of the product and the packaging and at the same time increases the efficiency and productivity of the complete line.

Efficient drive

Energy-saving motors with high efficiency for dynamically driven conveyors.

Gentle transport

Tailor-made single and multi-lane conveyors.

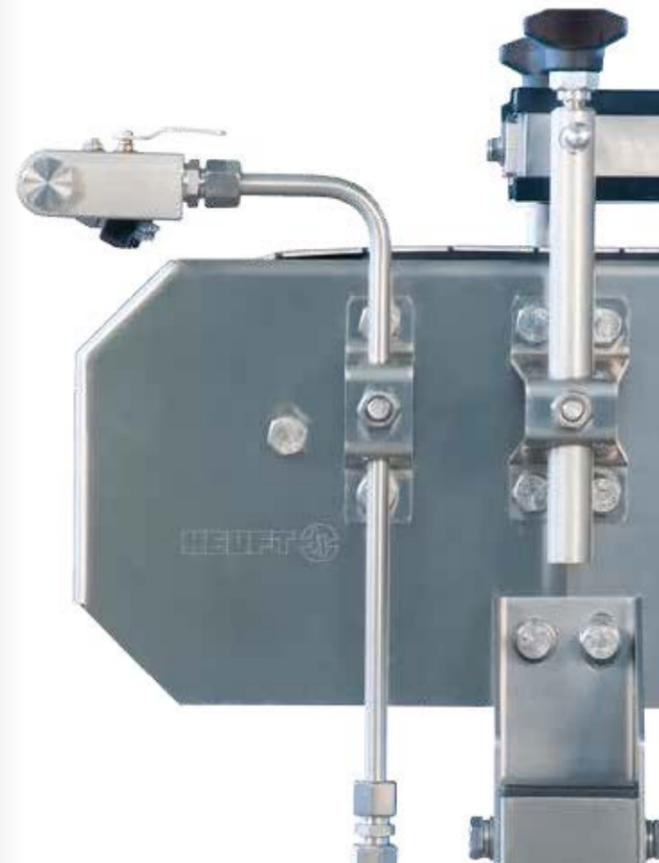
Intelligent control system

Proactive conveyor control system for a harmonious container transport without gaps or impact pressure.

A high degree of flexibility

Specific solutions for the most varied requirements regarding line optimisation.

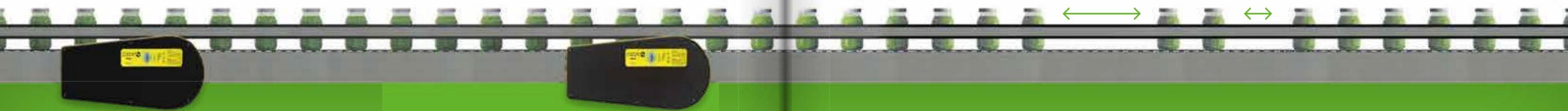
Everything flowing smoothly and everything in order!



From single-lane to multi-lane transport, from a primary rejection to a fault-specific secondary removal: you can achieve a smooth and efficient product and container flow in a small area with drives, conveyors, conveyor control systems, rejection systems, buffer tables, individually adapted layouts and unique complete solutions from HEUFT!

Space-saving, flexible and individual

Detailed line analyses, intensive advice and exact planning by competent HEUFT experts create compact solutions which will even fully meet your specific requirements! Products without faults are thus transported carefully through the line so that they remain without faults. Faulty ones are removed specifically and reliably – either by means of a primary rejection directly from the main flow and a subsequent fault-specific secondary removal ① or little by little ② at various positions after the inspector.



HEUFT conveyor

Powerful conveyors for a safe container transport.

Optimal conveying

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

Problem-free integration

Customised adaptation to individual space available 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.

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 the direct conversion of the energy used into precisely controlled movement and a 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 as well as 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 regulated, efficient container flow.

Increased efficiency

Smooth, zero-pressure gap closing - proactive prevention of jams, blockages 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 flow

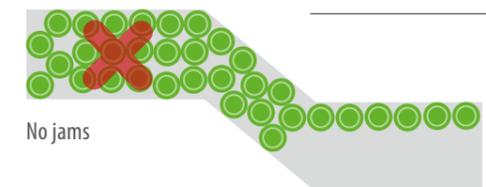
No glass defects caused by hard collisions and impact pressure, less scuffing and considerably reduced noise.



Smooth gap closing



No jams



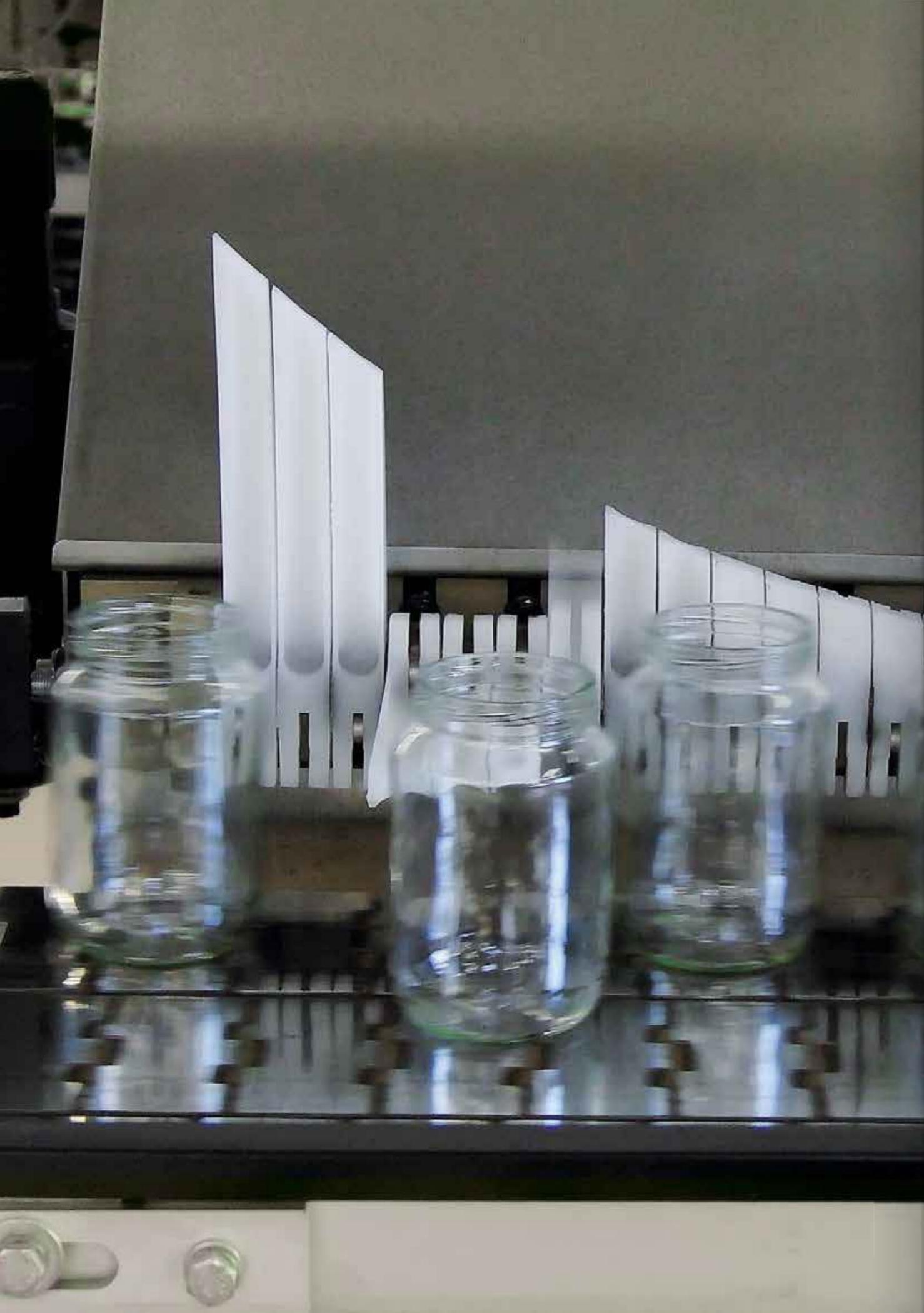
**HIGH-SPEED
CONTAINER
TRANSPORT**



Discover more

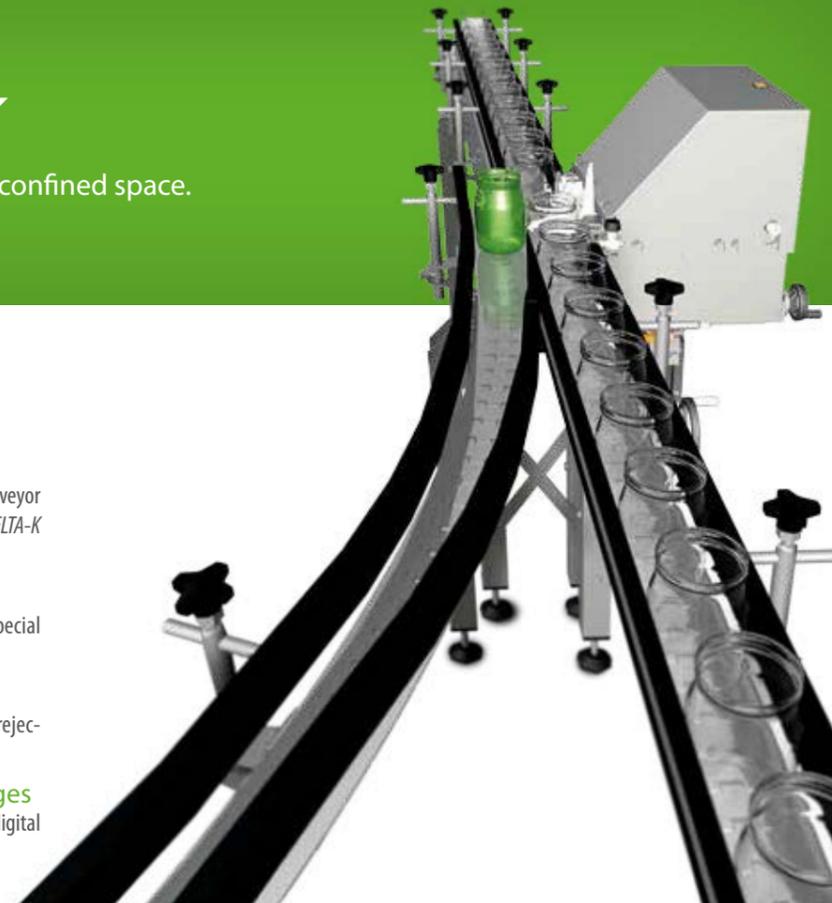


Discover more



HEUFT *LAMBDA-K*

Upright high-speed container rejection in a confined space.



Slim alternative to conventional rejectors with bulky rejection tables

New, particularly compact complete system comprising special conveyor mechanics, intelligent conveyor control system and modified HEUFT *DELTA-K* multi-segment rejector.

Safe rejection without falling over

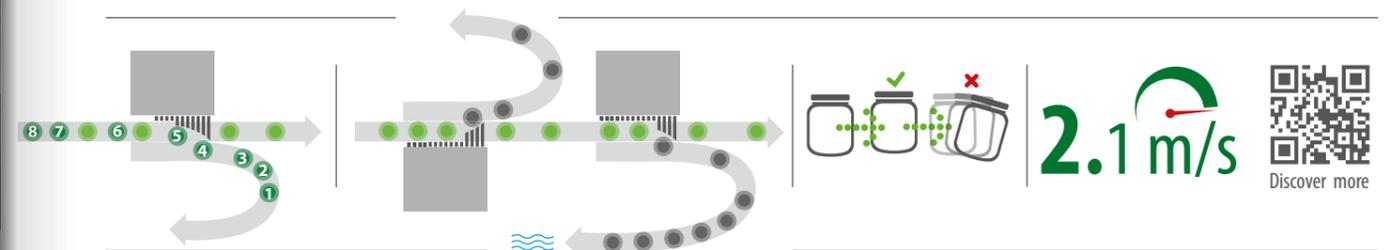
Careful upright rejection of faulty or non-brand food packaging due to special segment curve for minimum container resistance.

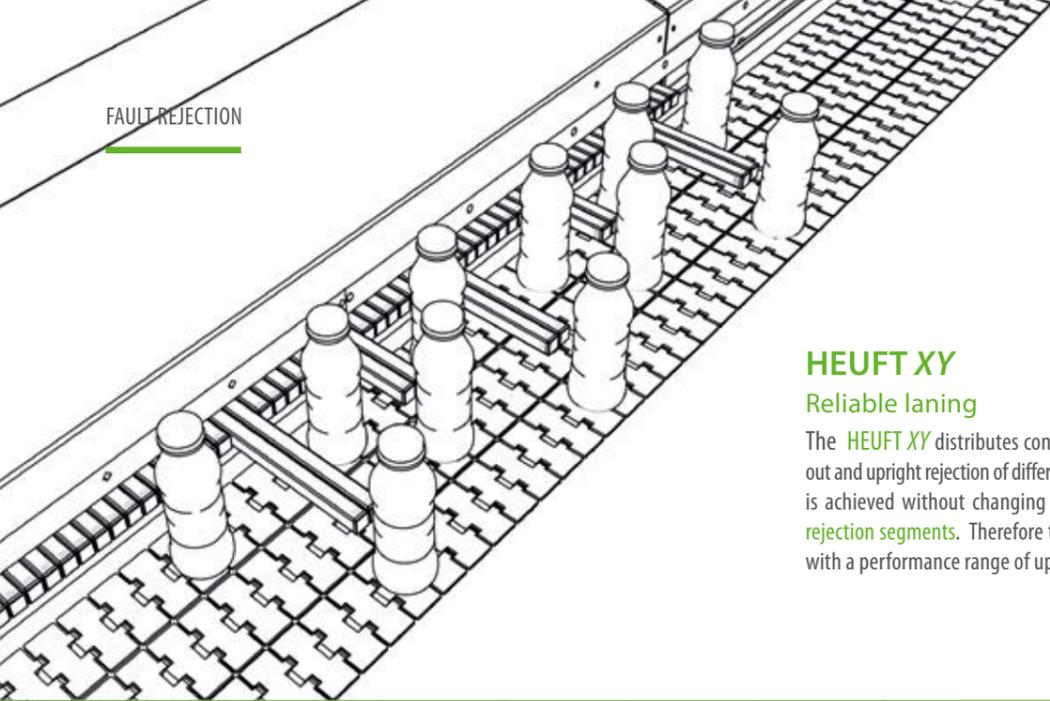
Compact conveyor instead of bulky buffer table

Gentle diversion of faulty containers onto a space-saving single lane rejection conveyor.

Trouble-free changeovers and fast brand changes

Simple adjustment and precise vertical and horizontal settings with a digital display.





HEUFT XY

Reliable laning

The **HEUFT XY** distributes containers onto up to four lanes. The sorting out and upright rejection of different shapes of empty and full food packaging is achieved without changing their alignment due to **servo-controlled rejection segments**. Therefore the **HEUFT XY** is ideal for use on food lines with a performance range of up to **1,000 containers** per minute.



HEUFT *pusher*

Compact discharger.

HEUFT *mono*

Careful rejector.

HEUFT *e-Mono*

High-speed rejector without compressed air.

HEUFT *flip*

Smooth rejection.

HEUFT *DELTA-FW*

Dynamic rejection curve.

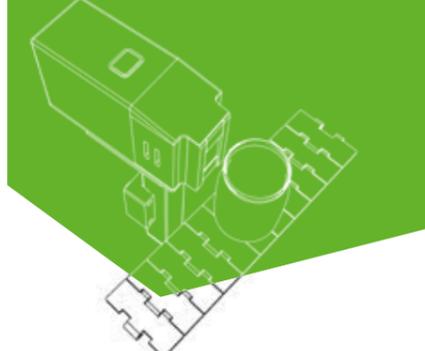
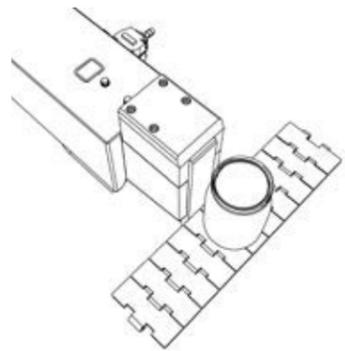
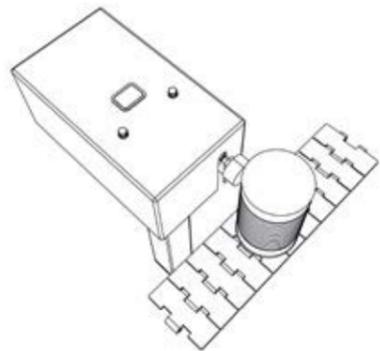
HEUFT *DELTA-K*

Gentle folding rejector.

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 more than **2,100 containers** per minute. The compact **HEUFT *pusher*** shows its true qualities on canning lines.

Der **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 containers can even be rejected in an upright position without falling over using minimum segment movement. The **HEUFT *mono***, a cost-effective all-rounder, is suitable for line outputs of up to **1,200 containers** per minute.

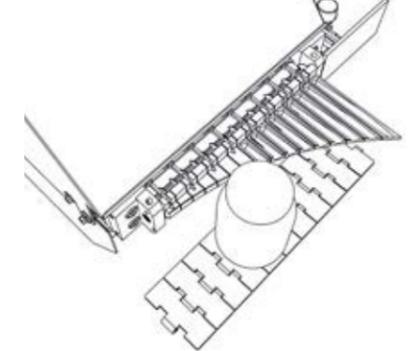
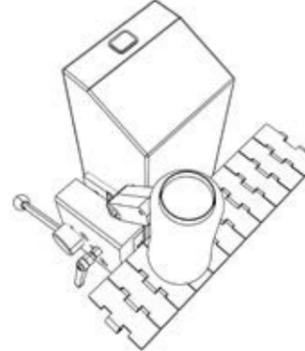
The **HEUFT *e-Mono*** is ideal for rejecting faulty containers onto a parallel conveyor or directly into a bin. The almost wear-free system does not need expensive, unhygienic compressed air for this and electricity only during the rejection procedure. Its feed force is adapted to the respective weight so that packaging material where the contents vary considerably is nevertheless rejected over the same distance. And that at line outputs of up to **3,000 containers** per minute!



The **HEUFT *flip*** removes all shapes of empty and full containers smoothly from the packaging 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 **1,000 containers** per minute.

The **HEUFT *DELTA-FW*** rejects and distributes filled jars 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 **rejects complete series** reliably with permanently extended segments. And that at line outputs of up to **2,500 containers** per minute.

The **HEUFT *DELTA-K*** is ideally suited for sorting out empty containers in an upright position, 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 **1,200 containers** per minute.





CONTENTS COMPLETE & SAFELY PACKAGED

Checking, measuring and examining – safeguarding the quality and functionality of cardboard boxes, trays and other types of outer packaging in-line.

Our devices for a full case inspection

From checking product completeness to the entire inspection of secondary packaging material.

For secondary packaging material in top shape. Complete, attractive and functional.

The contents of outer packaging have to be complete. And in addition the secondary packaging material has to be visually appealing as well as easily stackable, transportable and unpackable. HEUFT systems for checking and inspecting the quality of full cases find out whether this is really the case whilst still on the packaging line. Special case rejectors remove distorted, incorrectly sealed or contaminated secondary packaging reliably. In this way only secondary packaging material in top shape reaches the market.

Everything inside

Reliable examination that the correct number of food products is present in the case.

Full integrity

Timely detection of safety risks such as foreign objects in a case.

Full functionality

Sustainable safeguarding of the transportability and unpackability of outer packaging.

For all cases

Tailor-made solutions for specific requirements.



COMPLETELY AND PERFECTLY PACKAGED: examining secondary packaging material precisely.





HEUFT GX

Full case inspection for outer packaging in top shape.



Extensive quality assurance

Detailed examination of filled cases, cardboard boxes and trays.

Complete unpackability and transportability

Reliable detection of distorted and incorrectly sealed full cases.

Fully packaged and the correct height

Reliable examination that the correct number of containers is present in the case and a height profile check for identifying distorted and contaminated compartments as well as faulty containers.

Specific fault rejection

Consistent removal of incompletely packaged, faulty and non-transportable full cases from the production flow.

HEUFT logic

Compact full case check for secondary packaging material with complete contents.



Continuous packaging quality

Reliable examination to check that all the containers are present in cases, cardboard boxes and trays using optical and electromagnetic procedures.

Precise detection

Reliable identification of incompletely filled full cases due to total coverage of up to eight compartment rows and columns.

Targeted sorting out of faulty cases

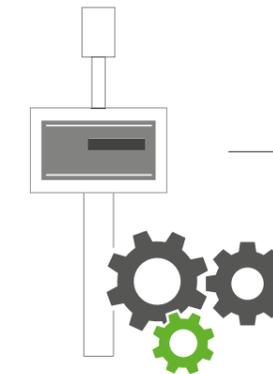
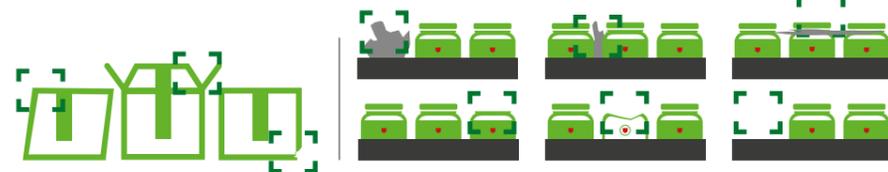
Conveyor stop signal or direct activation of a HEUFT case rejector.

Flexible adaptation

Height adjustable detection units for different case sizes – up to four pre-programmable brands.

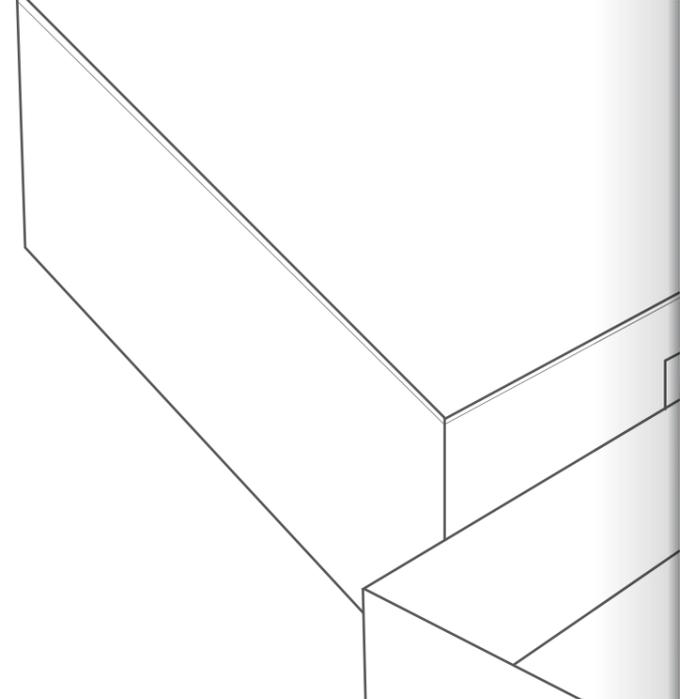


up to
120
units per minute



1,0 m/s





HEUFT *xcase*

Adaptable rejection push.

HEUFT *xtray*

Intelligent tray rejection.

HEUFT *maxi-flip*

Flexible activation.

HEUFT *maxi-laner*

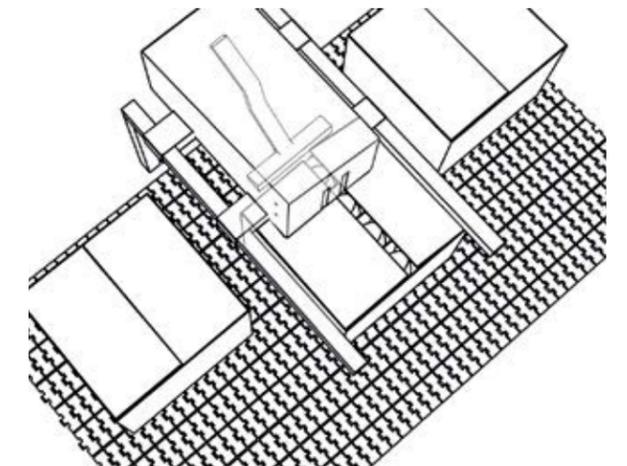
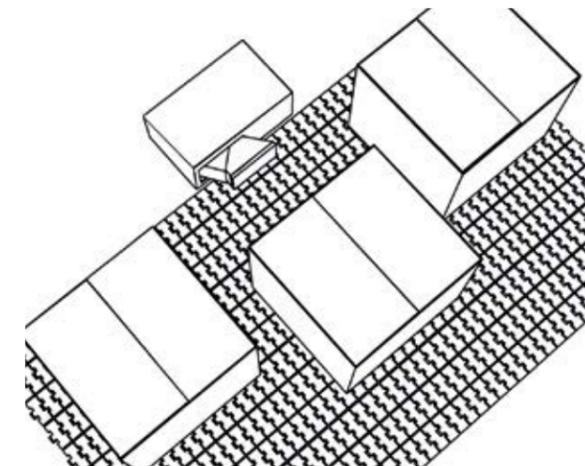
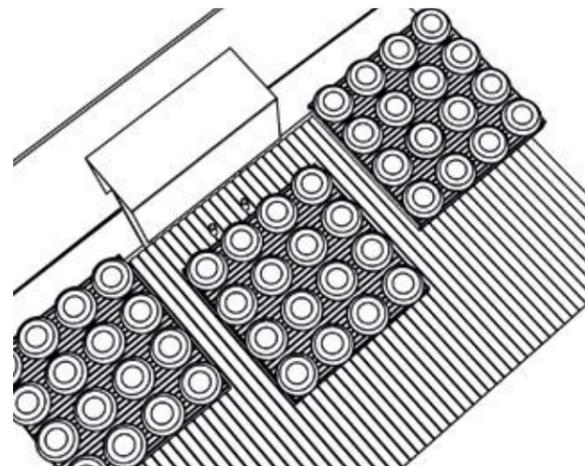
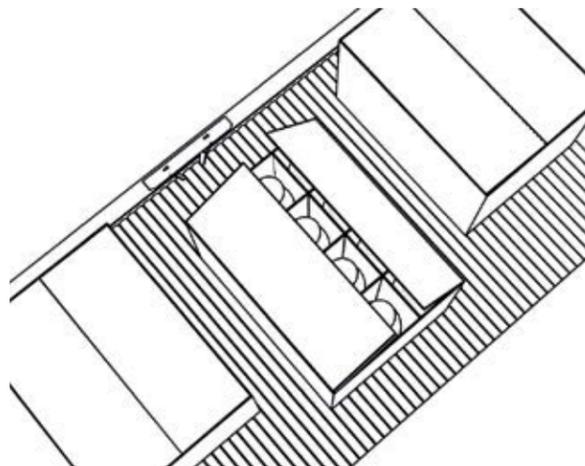
Compact alternative.

The **HEUFT *xcase*** creates brand purity and quality on a line. Its load-dependent control system, which adapts the force of the rejection push to the weight of each individual case, removes non-brand or faulty outer packaging smoothly from the filling line. Cases of varying weights are therefore each rejected an equal distance.

The **HEUFT *xtray*** removes damaged or faulty full trays from the line. Three rejection fingers assembled on a sledge under the roller conveyor are extended for this purpose. Trays can also be distributed onto several lanes if several of these intelligent case rejectors are lined up next to each other.

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 cases or cardboard boxes than for lighter ones. A complex mechanical changeover for different types of cases is not necessary.

The **HEUFT *maxi-laner*** is even more space saving than the HEUFT *maxi-flip*. The system 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.





HEUFT network technologies

EVERYTHING NETWORKED AND EVERYTHING IN VIEW!

Transferring information, recording operating data, analysing the performance of complete packaging 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.

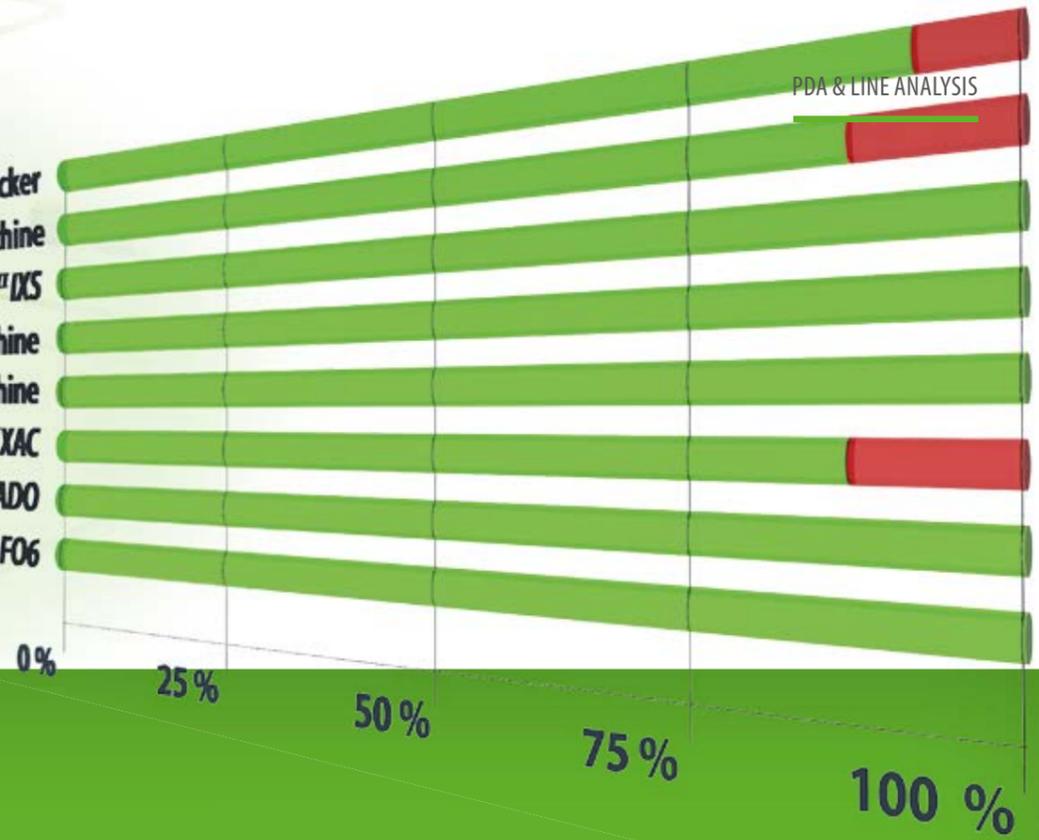
Interference, safety risks, quality problems and efficiency losses are therefore identified immediately.

A firewall protected direct connection to the HEUFT *TeleService* makes competent remote maintenance possible all around the clock in order to rectify these at an early stage.

ENLIGHTENMENT



Unpacker
 Washing machine
 HEUFT InLine™ IXS
 Filling machine
 Closing machine
 HEUFT eXaminer™ XAC
 HEUFT TORNADO
 HEUFT Final View FO6



HEUFT PROFILER family

Production data acquisition (PDA) and line analysis in real time.



Constant performance analysis

Continuous recording, sustainable backing up and targeted evaluation of production and quality-related data of HEUFT systems / all the networked machines of a packaging line.

More production quality and more productivity

Early exposure of error sources, weak points and interference for preventive maintenance.

Precise computing and clear display

Automatic calculation, table and graphic preparation as well as the long-term archiving of important operating figures.

Different versions for various requirements

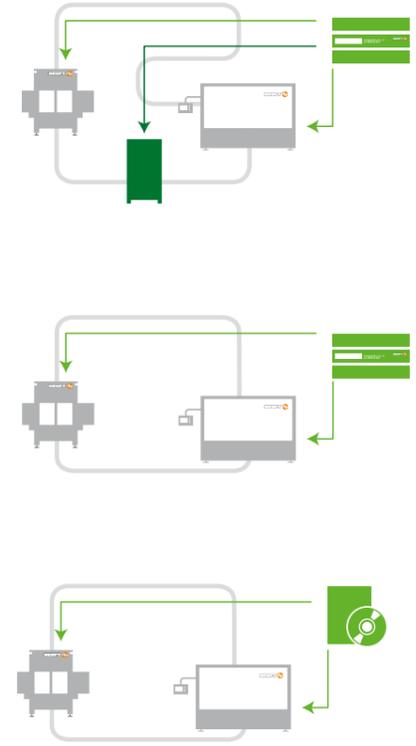
Tailor-made, customer-specific tools from a slim software solution for the essentials to an extensive server-based complete line analysis.



HEUFT STRATEGY II server for HEUFT PROFILER and HEUFT PROFILER advanced



HEUFT PROFILER elemental



Extension

Upgrade

HEUFT PROFILER advanced

The complete package for an extensive line analysis – server-based IT tool for HEUFT and non HEUFT devices

HEUFT PROFILER

The PDA solution with added value – server-based IT tool for HEUFT devices

HEUFT PROFILER elemental

Software solution for HEUFT devices – the PDA system for the essentials



HEUFT RECIPER

Networked brand and recipe management.

More product quality and more output
Server-based brand and recipe management in real time.

Automatic transfer of recipes and equipment features

Live distribution of all relevant data and parameters to networked HEUFT systems for optimal quality assurance.

Central brand changeovers

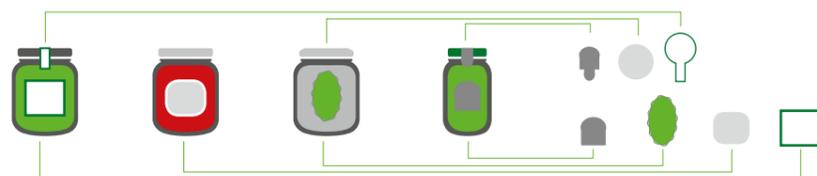
Direct connection to overall manufacturing execution systems (MES) for easy initiation of program changes and real-time transmission of changed container and equipment characteristics to each HEUFT device in the network.

Easy new commissioning and modifications

Uncomplicated addition of new and fast adaptations to existing recipes and equipment features.



HEUFT RECIPER



Discover more



HEUFT *picCollect*

Automatic transmission and storage of detection pictures.

Specific production monitoring and sustainable archiving

Direct transmission and long-term backing up of the camera pictures and X-ray images of all the inspected or all the rejected products for continuously documenting the detection performance of the HEUFT systems.

Obvious marking for a full overview

Marking the faults recorded in the jpg image files clearly in red.

Easy integration

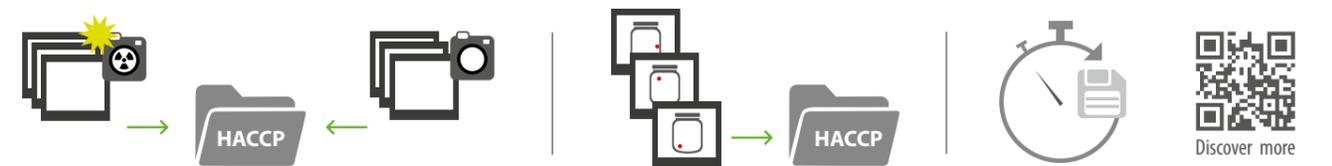
Slim software tool for uncomplicated installation on customer servers and office PCs.

Permanent availability

Constant backing up without a time limit.



HEUFT *picCollect*



Discover more

LIFE CYCLE PARTNERSHIP

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.

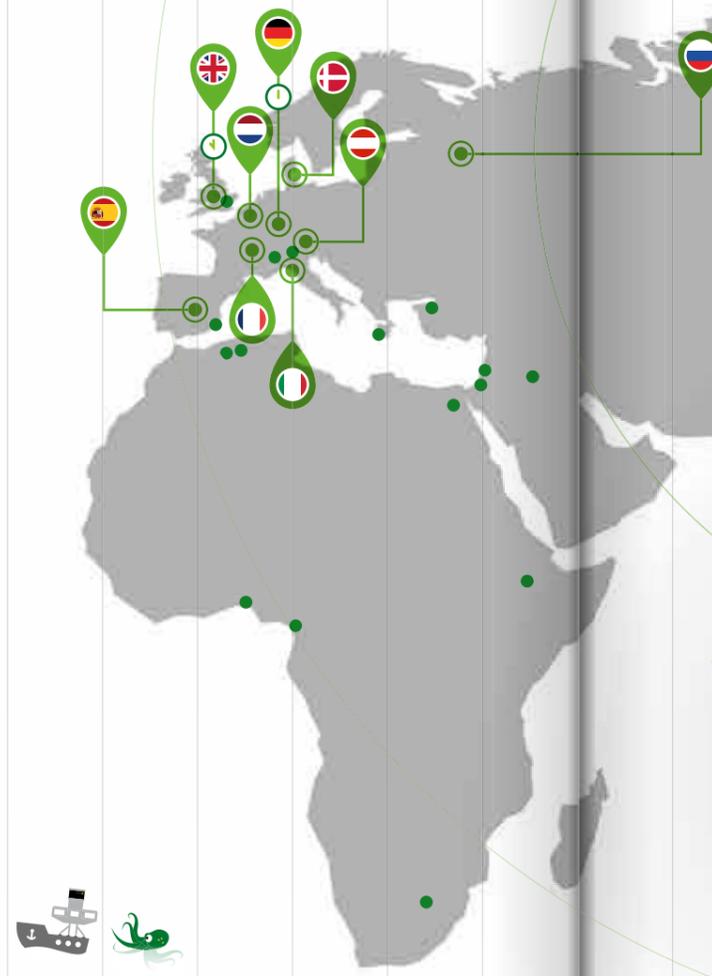
We will bring in our full **expertise** before implementing turnkey solutions. Proactive **support** is provided by us at all times after commissioning. We simply always offer competent **enlightenment** regarding the possibilities and limits of an in-line quality inspection. The result: a reliable partnership 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

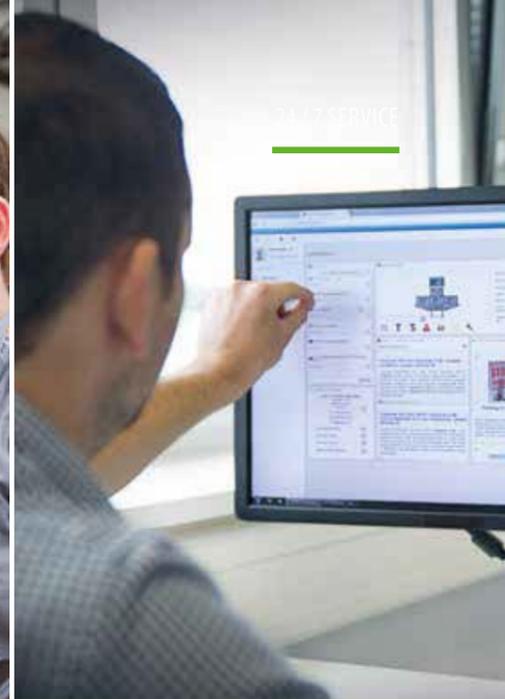
GLOBAL SERVICE



-  HEUFT LOCATIONS
-  PARTNERS
-  TIME ZONES
-  HEUFT *TeleService* – online and remote diagnosis
HEUFT *PhoneService* – telephone consultation
-  HEUFT *DirectService* – prompt on-site visits
-  HEUFT *DeviceSupport* – live overview of the current device status



 AROUND THE WORLD



HEUFT *TeleService*

Online remote diagnosis and maintenance.



HEUFT *PhoneService*



HEUFT *DirectService*



HEUFT *DeviceSupport*

Always there for you!

24/7 on-call duty for constant availability in the event of a failure.

Real remote maintenance in real time

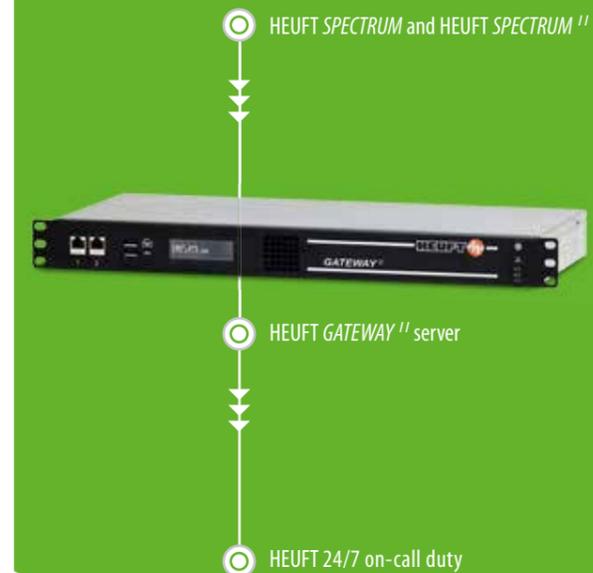
Stable online connection with the nearest local service technician in the HEUFT network for direct access to the device in question – identifying and solving problems promptly.

Secure tunnel

Firewall and password protected, encrypted VPN IPsec point-to-point connection to any nodes in the HEUFT network.

Up-to-date hardware and easy handling

New, compact HEUFT *GATEWAY* II server with simplified network configuration for all HEUFT *SPECTRUM* and HEUFT *SPECTRUM* II systems. Straightforward commissioning and easy web-based administration by your own IT team. Display for current status messages. Automatic security updates. Individual solutions with customer-specific network configuration possible.



Hotline for powerful support.

The HEUFT *PhoneService* is also continuously available. You can contact qualified HEUFT technicians with field experience on the service hotline for our customers seven days a week around the clock. Unlike clueless call centre agents they know exactly what has to be done and support you comprehensively with targeted assistance at inland call rates: the respective problem is diagnosed reliably and solved directly. A prompt on-site visit is arranged immediately if in an exceptional case this should not be possible remotely.

Fast and effective on-site visits.

You need a service technician at your premises? Then you can count on the fast response times of the HEUFT *DirectService*! With 14 international locations and additional service representatives all over the world the swift arrival of competent experts is always ensured. They deal skilfully with everything necessary for restoring the full availability and operational reliability of your HEUFT systems as quickly as possible.

Online customer portal for a simply better overview and rapid response.

The HEUFT *DeviceSupport* provides you with an overview of the status and the complete technical documentation for all the installed HEUFT systems including available counter readings, messages and basic documents. In addition the browser-based online portal ensures effective spare parts and service management – with an always up-to-date illustrated spare parts list, virtual shopping basket and service visit calendar. The HEUFT *DeviceSupport* provides safety, transparency and up-to-dateness with user-specific, password protected access rights, customisable desktop, the individual grouping of device lists, user-definable alternative device names and the easy downloading of the latest firmware and software.

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 | +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 | +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 | +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 | +49 2636 56 0



Technological milestones

1978 1979 1982 1988

The first **HEUFT fill level detection** and the world's first ever **multi-segment rejection** system.

The founding of **HEUFT SYSTEMTECHNIK GMBH**.

The world's first ever device for an **in-line quality inspection** with operator guidance using a **monitor**.

Market launch of the universal **HEUFT SPECTRUM** platform for modular inspection systems.

1991 1998 1999 2001 2002

HEUFT EBI – the **first empty bottle inspector** for an efficient **linear operation**.

Market launch of the first **HEUFT TORNADO** labelling machine.

HEUFT SPECTRUM TX – a network-compatible platform for modular inspection systems with the **HEUFT PILOT** graphical user interface.

HEUFT InLine – an empty container inspection on an area of only one square metre.

HEUFT squeezer – a leakage check for filled plastic containers.

In-house developed **HEUFT reflexx** image processing system with specific object detection

HEUFT PROFILER – production data acquisition and line analysis.

2003 2005 2009 2010 2011

HEUFT eXaminer – unique pulsed X-ray technology for a careful and precise foreign object detection.

HEUFT FinalView for an extensive final examination of the container dress.

HEUFT conveyor – container transport in accordance with the **HEUFT CleanDesign**.

HEUFT beetec – a direct drive for container conveyors.

HEUFT reflexx² real-time image processing system with specific object detection and classification.

HEUFT prime full container check – the first self-explanatory device with the revolutionary audiovisual **HEUFT NaVi** user guidance.

2013 2014 2015 2016 2017

HEUFT SPECTRUM II – the latest generation of the universal device platform for a wide variety of inspection tasks with significantly increased performance and automation as well as the self-explanatory audiovisual **HEUFT NaVi** user guidance.

HEUFT InLine II IXS – the first empty container inspector with pulsed X-ray technology based on the **HEUFT SPECTRUM II**.

Optimised **HEUFT eXaminer** – technology with X-ray strobes and full-field image converters based on the **HEUFT SPECTRUM II** for even more detection accuracy when detecting foreign objects.

HEUFT RECIPER – brand and recipe management.

HEUFT LAMBDA-K – a complete system comprising conveyor mechanics, conveyor control system and multi-segment rejector for a careful upright container rejection in a confined space.

...expect the unexpected!

GLOBAL PLAYER

● HEUFT subsidiaries ● HEUFT partners



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