HEUFT PRODUCTS
for the beverage industry
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.

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.

HOMOGENEOUS & ERROR-FREE
Sorting, checking and inspecting — safeguarding the quality of beverage containers before the filling process.
Simply finding reliably:
finish faults, chips, shell-shaped fractures and many other safety and quality defects.

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.

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

No blind spots
Continuous base, sidewall, finish and thread inspection.

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.

Out with faulty empties. In with safety and quality.
From empty can to X-ray empty bottle inspection.
HEUFT InLine II IXS
X-ray assisted premium empty bottle inspection for an unprecedented detection reliability.

From the finish to the base
Optical complete inspection with a precise fine bottle alignment for coverage of up to considerably more than 360°. Double resolution during the sidewall inspection. Integrated residual liquid detections.

Unprecedented detection reliability
The highest ever detection performance at the lowest false rejection rate confirmed by independent experts. Precise identification of minute glass splinters in residual liquid due to unique pulsed X-ray technology.

Simply resource saving
Maximally automated HEUFT SPECTRUM II system with self-explanatory HEUFT NaVi user guidance and fully automatic brand changes.

Analysis capable of learning
The HEUFT reflex² real-time high-performance image processing system with teach-in function.

HEUFT InLine II IS
The new standard for a superior empty bottle inspection on a HEUFT level.

Premium becomes standard
Specific combination of trendsetting technologies from the premium empty bottle inspection of the new generation with a completely new, compact, hygiene-optimised and easy to maintain construction.

Comprehensive detection
Complete examination of all the areas of each bottle with real-time image analysis capable of learning for the identification of all risks and defects. Four-fold sidewall inspection for more than 360° coverage with double resolution.

Superior construction
Open, easily accessible HEUFT CleanDesign with neither frame nor machine table for minimum cleaning and uncomplicated maintenance. Even more compact than its predecessor despite the full integration of all the detection modules including residual lye detection.

Maximum automation and full operating reliability
Optimised bottle transport and fine alignment, automatic adjustment of all transport and detection units during brand changes. Highly automated HEUFT SPECTRUM II platform with audiovisual HEUFT NaVi user guidance.

NEW! 
180° usable on both sides
4 x SW / 2 x resolution
space-saving construction
integrated residual lye detection
extremely easy to maintain
hygienic design without table
84,000 containers per hour
84,000 containers per hour
HEUFT InLine II IR
Your affordable entry to a true empty bottle inspection on a HEUFT level.

The forerunner with new power
Proven construction and detection technologies of the long-standing benchmark regarding empty bottle inspection combined with the performance and self-explanatory user guidance of the new generation.

Ideal for newcomers
From a residual liquid detection, base, finish and thread inspection on less than one square metre of floor space to a complete inspection of all the areas of the bottle: flexible modules, equipment and configuration options for small and large demands, performance ranges and installation positions.

Simply more performance!
The HEUFT SPECTRUM II platform for a significant increase in computing and detection power, the HEUFT reflexx² for a real-time image analysis and the HEUFT NaVi for ease of operation.

Perfect price / performance ratio
True empty bottle inspection on a HEUFT level at the best possible conditions.

HEUFT reflexx / HEUFT reflexx² 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 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.

Exactly what this is is in your hands with the new generation of image processing. In addition to the specific detection of the most varied objects the HEUFT reflexx² also carries out their individual classification: you can select them using the touchscreen and characterise them yourself as either good or undesired.

The HEUFT reflexx² 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.
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.

HEUFT canLine
144,000 containers per hour
ONE CAMERA FULL INSPECTION

Discover more
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!
CHECKED & PRECAUTIONS TAKEN

Checking, detecting and preventing – finding quality defects such as fill level and closure faults reliably and exposing the causes in good time.
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 production quality
Continuous product tracking, reliable quantifying and targeted sampling.

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

Highest availability
Reliable and easy to handle HEUFT systems.

Our devices for a full container check and inspection
From fill level check up to an extensive filler and closure management.
HEUFT SPECTRUM II VX
Fill management based on the HEUFT SPECTRUM II.

Optimal product quality
Reliable detection of underfills and overfills, closure faults and burst bottles.

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 volume 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.

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.
HEUFT PRIME
Full container check of the new generation.

High product quality
Reliable detection of incorrectly filled, not properly sealed, unlabelled and burst beverage containers and BB check.

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.

HEUFT ONE
Your entry to a compact full container check on a HEUFT level.

ONE for all!
A completely new category of slimline devices for an affordable introduction to a reliable full container check.

Full quality check
Precise fill level detection for full containers. Smart sensor technology for examining the presence and position of the closure.

Space-saving construction and easy handling
Easy to integrate stand-alone system. Flexibly combinable detections directly on the conveyor connected to a compact control unit designed for optimum hygiene. Easy brand changes. Clear display with the HEUFT NaVi user interface for straightforward operation.

Real cutting-edge technology on a the HEUFT level
Affordable complete solution comprising innovative detection technologies, in-house developed hardware and software and proven procedures for highly precise product tracking, inspection and fault rejection. Additional detection modules can be connected e.g. code verification.
Our devices for a reliable foreign object and defect detection
From metal detection to glass in glass detection.

Contamination inside. Full container out.
Glass splinters, metal fragments, stones, paper or scraps of film: 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 full containers are identified and rejected reliably whilst still on the line. Whether high or low density foreign objects or opaque or transparent: the most varied types of contamination are detected precisely using the right technology. Even faults barely noticeable with the naked eye 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 beverage packaging.

Full transparency
Different technologies for the reliable identification of a wide range of different foreign objects.

Smart demarcation
Reduction in the false rejection rate due to a clear distinction between real and supposed faults.
**HEUFT eXaminer II XOS**
Foreign object inspection of the new generation with unique X-ray strobes.

**Broad spectrum**
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 reflex² real-time image processing system with learning ability for clearly differentiating between real and supposed safety risks.

**HEUFT eXaminer II XAC**
Foreign object inspection of the new generation with pulsed X-ray technology.

**Prevention of product recalls and liability cases**
Identification of dangerous foreign objects already during the filling process.

**Maximum detection reliability**
Sharp, high-resolution X-ray images with minimum radiation.

**Continuous 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 SPECTRUM² platform and self-explanatory audiovisual user guidance.

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**72,000 containers per hour**
Flight Frankfurt – San Francisco
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 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!
HEUFT floater
Foreign object inspection for the reliable detection of objects floating in the product.

- **Identification of inconspicuous safety risks**
  Reliable detection of low density foreign objects floating in the product.
- **Remarkable detection accuracy**
  Certain identification of transparent foreign objects even in non-transparent liquids.
- **Improved sharpness**
  Optional doubling of the resolution for the reliable detection of minute faults.
- **Straightforward integration**
  Add-on module for a problem-free connection to fill management systems such as the HEUFT SPECTRUM II VX.

HEUFT spotter SF
Foreign object inspection for the reliable detection of dangerous low density objects.

- **Maximum product safety**
  Reliable detection of faults which are hardly visible to the naked-eye such as mould on the base, transparent scraps of film floating in the product or cracks in the glass.
- **Exact orientation**
  Servo-controlled bottle alignment for a continuous 360° all-around inspection.
- **Full transparency**
  Unique optical technologies for detecting foreign objects reliably even in cloudy or dark products.
- **Specific object detection with teach-in**
  Maximum selectivity and minimum false rejection rate due to real-time image processing system with learning ability.

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72,000 containers per hour

OPPORTUNITY WITH DOUBLED RESOLUTION

ADDITIONAL MODULE

72,000 containers per hour

Discover more
Our devices for a leakage check
From internal container pressure measurement to the identification of microleaks.

**Leak identified. Danger eliminated.**
Leaks are a real safety risk. They not only cause unwanted product discharge but also threaten the microbial purity and harmless consumption of sensitive drinks. HEUFT solutions for checking tightness detect minute leaks just as precisely as faulty, untight closures and remove the bottles in question reliably. Therefore only full containers which are really leakproof reach the consumer.

**High packaging quality and high product safety**
Sustainable safeguarding of the container stability and effective protection against microbiologically contaminated drinks.

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

**Full shelf life for full enjoyment**
Effective prevention of premature product spoilage.

**Maximum product quality**
Correct nominal filling quantity and high closure integrity.
HEUFT squeezer II QS
Highly automated leakage check based on the HEUFT SPECTRUM II.

Leakproof packaging and pure contents
Reliable detection of minute leaks in filled bottles made of PET and other plastics 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.

HEUFT squeezer QS
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 plastic bottles.

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

Automatic brand changes
Servo-controlled adaptation of the transport and detection units at the touch of a button.
HEUFT squeezer QL
Leakage check for the clear identification of microleaks in plastic containers.

- **Total product safety**: Reliable identification of minute leaks due to internal container pressure measurement and comparative fill level detection.
- **Maximum detection reliability**: Longer inspection path for an even more reliable identification of hardly noticeable leaks.
- **Microbial purity**: Specific rejection of leaking plastic bottles 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.

HEUFT exciter
Ultrasonic fobbing for examining whether the closure leaks.

- **Complete closure safety**: Protection against product spoilage and product leakage as well as ensuring the stability of PET bottles.
- **Direct transfer and full productivity**: Ultrasonic generator for product fobbing directly on the conveyor instead of a productivity thwarting water bath.
- **Careful examination**: Zero pressure, almost frictionless gliding of the containers along the oscillating guide rail.
- **Compact solution**: Space-saving and easy to retrofit detection unit.

**72,000 containers per hour**
Perfectly labelled. Securely sealed.
The appearance has to be right. Mislabeled containers and those which have not been correctly sealed must not reach the market in the first place. HEUFT end of line systems detect the beverage packaging in question and remove it from the line in good time. For this they carry out a detailed inspection of the labels, markings and closure elements which uncovers even minute deviations.

Attractive dress
Sustainable safeguarding of the perfect appearance of full containers due to a highly precise label inspection and the reliable rejection of mislabeled bottles.

Optimal detection
Detection pictures without shadows or reflections during a continuous 360° complete inspection.

Complete safety
Reliable identification and rejection of wrongly marked and incorrectly sealed bottles for maximum packaging and product integrity.

Reliable final examination
Compact end of line solutions for a sustainable quality assurance of the fully dressed final product.

Our devices for an outer appearance inspection
From label to closure inspection.
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 when the containers are not aligned.

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

HEUFT FinalView LBL
Label inspection for perfectly dressed end products.

Faultless appearance
Continuous complete inspection of all the labels with the reliable identification and rejection of mislabelled bottles.

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 reflex² 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.

72,000 containers per hour
Elimination free of shadows and reflections

Discover more
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.

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 bullnoses, 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.

1.4 x
new performance

1.5 x
taller height difference

1.2 x
smaller closure diameter

6 x
higher resolution

99,000
containers per hour

Discover more
PRECISELY APPLIED & PERFECTLY DRESSED

Aligning, applying and standing out – labelling filled beverage packaging exactly.
Faultless dress. Optimum appearance.
Aligning, applying and standing out: the labelling machines of the HEUFT TORNADO series makes this possible! They carry out the clean and exact application of attractive wet glue, hot glue and wrap-around labels on filled beverage containers. For this the latest servos carry out a fine bottle alignment with millimetre accuracy. Easy to integrate add-on modules check the quality of the newly labelled full container in the same work process.

Full information
Reliable, optimally readable information about the product inside due to brand consistent, error-free labelling.

High-precision application
Extremely precise labelling without creases, bubbles or offset due to flex technology for an accurate servo-controlled fine alignment of the bottles.

Perfect look
Attractive container dress for a high recognition value at the POS and sustainable brand protection.

Versatile procedures
Accurate wet glue, hot glue, self-adhesive and wrap-around labelling of a wide range of container shapes and areas.
**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**
  Examination of the label presence in the same process and straightforward integration of further modules for checking the quality of full containers.

- **Uncomplicated brand and program changes**
  Replacement of change parts without tools, automatic adjustment of the machine head height, servo-controlled rotating cam programmable according to the brand.

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

**HEUFT TORNADO S flex**

Self-adhesive labeller with servo-controlled rotating cam.

- **Good adhesion**
  Highly precise application of self-adhesive collar, body, back and neck ring labels due to servo technology for the fine alignment of bottles with millimetre accuracy.

- **Integrated check**
  Examination of the label presence during the same work process and straightforward integration of further modules for checking the quality of full containers.

- **Easy brand and program changes**
  Fast changeovers due to the automatic adaptation of the machine head height, servo-controlled rotating cam programmable according to the brand and replacement of change parts without tools.

- **Straightforward maintenance**
  Durable components, central lubrication for all moving parts and easy manual replacement of the centring bells.

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**72** up to **48,000** containers per hour
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 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 belt drive program-mable according to the brand, automatic adjustment of the machine head height and easy replacement of change parts without tools.

Minimum maintenance
Durable components, central lubrication for all moving parts and easy replacement of the centring bells.

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Minimum maintenance
Durable components, central lubrication for all moving parts and easy replacement of the centring bells.
EVERYTHING FLOWING SMOOTHLY AND EVERYTHING UNDER CONTROL

Powering, regulating and rejecting — transporting bottles and cans without faults through the line efficiently and carefully / removing faulty containers from the line consistently.
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-lane 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.

Our container transport solutions
From conveyor drive to fault rejection.

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 or little by little at various positions after the inspector.
HEUFT conveyor
Powerful conveyors for a safe 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 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 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 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.
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
  Smooth upright rejection of faulty / non-brand bottles and cans 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.

60,000 containers per hour
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 125,000 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 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 rejection 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 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.
Examining, measuring and evaluating – ensuring the brand purity, quality and effectiveness of returnable crates, cardboard boxes for drinks and trays sustainably.
Our devices for an empty case inspection
From a non-brand bottle detection to a crate design examination.

Perfect inside. Outside too.
Unmixed, intact and safe to unpack: returnable crates should not contain too many non-brand bottles and no foreign objects whatsoever, not pose a risk of injury, be straightforward to empty and look their best. HEUFT systems for a detailed empty case inspection and rejection ensure this. Therefore only perfect returnable crates are re-used. The result: top quality end products and maximum line efficiency.

No mixing up
Timely rejection of empty crates with a large number of non-brand bottles.

Ultimate consumer safety
Reliable detection of injury risks such as broken handgrips.

Full unpackability and functionality
Specific examination of the crate geometry.

Perfect look
Complete crate design inspection capable of learning for optimum appearance at the point of sale.
HEUFT LX
Returned case inspection for drink 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 infographics).

HEUFT LKX
Specific examination of the crate design.

Perfect appearance at the point of sale (POS)
Continuous complete inspection of all four outer walls of empty drink crates for the reliable identification of damage, label remains, contamination, marking and design faults.

Implementation of individual quality requirements
Targeted characterisation of detected objects as acceptable deviations or unwanted defects due to the HEUFT reflex² real-time image processing system with teaching in capability.

Reliable removal of faulty crates
Safe tracking and precise rejection of faulty crates including reject monitoring.

Easy brand changes
Automatic adaptation of all the parameters and motor-driven adjustment of the height and position of each of the detection units.

Fuzzy logic: comparing apples with pears!
Our devices for a full case inspection
From checking product completeness to the complete inspection of secondary packaging material.

Safe secondary packaging material. In premium quality.
Complete, good to handle and attractive. Secondary packaging material containing drink containers such as crates, cardboard boxes and trays has to fulfill these criteria in order to arrive at the point of sale safely and attract the full attention of the end customer there. HEUFT systems for the precise identification and consistent rejection of faulty full cases ensure this! Thus they detect and remove outer packaging with incomplete contents just as reliably as that which is contaminated, distorted, defective and cannot be transported or stacked.

Fully packaged
Clear detection and specific rejection of full cases with missing products.

Full shape
Reliable identification of distorted crates and cardboard boxes.

Full detection accuracy
Precise detection of faulty beverage containers and foreign objects in a case.

Full safety
Gentle rejection of faulty full cases.
HEUFT GX
Full case inspection for outer packaging in top shape.

Extensive quality assurance
Detailed examination of filled drink crates, 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 drink crates, 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.
HEUFT xcase
Adaptable rejection push.

HEUFT xtray
Intelligent tray rejection.

HEUFT maxi-flip
Flexible activation.

HEUFT maxi-lanner
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-lanner 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.
Transferring information, recording operating data, analysing the performance of complete filling lines, managing brands centrally 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.

The devices and machines on a line have the same information, 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. The result: optimal efficiency and quality management.
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 PROFILER advanced
The complete package for an extensive line analysis – server-based IT tool for HEUFT and non HEUFT devices

Extension

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

Upgrade

HEUFT PROFILER elemental
Software solution for HEUFT devices – the PDA system for the essentials
**HEUFT RECIPE**
Networked brand and recipe management.

**HEUFT picCollect**
Automatic transmission and storage of detection pictures.

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**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.

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**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.
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!
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.

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 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, customizable desktop, the individual grouping of device lists, user-definable alternative device names and the easy downloading of the latest firmware and software.

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.

HEUFT TeleService
Online remote diagnosis and maintenance.
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

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

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 world-wide 24/7 support.

Technical.Desk@heuft.com | +49 2636 56 278

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  The first heuft fill level detection and the world's first ever multi-segment rejection system.
1979  The founding of heuft Systemtechnik gmbh.
1982  The world's first ever device for an in-line quality inspection with operator guidance using a monitor.
1988  Market launch of the universal heuft SPECTRUM platform for modular inspection systems.
1991  HEUFT EBI – the first empty bottle inspector for an efficient linear operation.
1999  heuft InLine – an empty container inspection on an area of only one square metre.
2001  heuft s queezer – a leakage check for filled plastic containers.
2002  In-house developed heuft reflexx image processing system with specific object detection.
2003  heuft eXaminer – unique pulsed X-ray technology for a careful and precise foreign object detection.
2005  heuft FinalView for an extensive final examination of the container dress.
2009  heuft beet ec – a direct drive for container conveyors.
2010  heuft reflexx² real-time image processing system with specific object detection and classification.
2011  heuft PRIME full container check – the first self-explanatory device with the revolutionary audiovisual heuft NaVi user guidance.
2013  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.
2014  heuft InLine II IXS – the first empty container inspector with pulsed X-ray technology based on the heuft SPECTRUM II.
2015  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.
2016  heuft RECIPER – brand and recipe management.
2017  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.
GLOBAL PLAYER

- HEUFT subsidiaries
- HEUFT partners