HEUFT WILL NOT ABANDON YOU!

A supplier who is extremely well positioned globally with fast reaction times is needed in order to avoid costly standstills and production downtimes: a supplier like HEUFT.

We ensure that our experienced service team is on the spot as quickly as possible for installation, commissioning, maintenance and repairs with our own locations in 14 different countries and a comprehensive network of service bases on five continents

The HEUFT TeleService provides an additional advantage: with this device malfunctions can be identified, analysed and in many cases directly rectified using a protected Internet connection from a distance independent of the location An on-site visit, if this is nevertheless necessary, is shortened considerably due to the information received in advance

Regardless of what happens: the HEUFT service team will not aban-

don you and will promptly rectify sources of interference before lengthy standstills and production downtimes can occur.



"The first impression leaves its mark and the last impression stays that is my motto as Manager of the Customer Care & Technical Service team. We react fast and do all we can in order to ensure the maximum availability of your pharmaceutical packaging line".

HEUFT SYSTEMTECHNIK GMBH

JÖRG RAFFAUF Service Manager

Email: Joerg.Raffauf@heuft.com Phone: +49 2636 / 56 1870

HEUFT Training Center

ALWAYS KNOWING WHAT TO DO

Operators learn what is important regarding the configuration, operation, care and maintenance of HEUFT devices on practice-oriented training courses.

Our inspection systems provide help for self-help due to their intuitively understandable user prompting.

However your team should learn about the functions and possibilities which they offer in order to ensure their operational reliability from



scratch during a complete intensive training course at the HEUFT Training

Our competent trainers not only

impart theoretical background in quiet surroundings in the course of this. Practical exercises play an important role. Whether via online access on the HEUFT PILOT user interface or directly at the respective device: the training and workshop rooms with modern facilities in the new HEUFT Customer Center give your employees the opportunity to

test important tasks such as cleaning and maintenance or brand changes in peace and quiet without disturbing the running operation in their own

Consequently the members of your team are able to identify problems promptly and solve them themselves before the operational reliability suffers. Contact details for the HEUFT Training Center can be found below. Current dates for training courses and further information are available on www.heuft.com

JÜRGEN BREITBACH Technical Trainer HEUFT SYSTEMTECHNIK GMBH



"The ultra modern equipmen in the training and workshop rooms of the new HEUFT Customer Center ensures an optimal learning environment"

Email: Juergen.Breitbach@heuft.com Phone: +49 2636 / 56 1510

GET IN TOUCH!

HEUFT SYSTEMTECHNIK GMBH

Burgbrohl, GERMANY Phone: +49 2636 56 0 pharma@heuft.com

HEUFT FRANCE S.A.

Brumath, FRANCE Phone: +33 388 59 3000 france@heuft.com

HEUFT DO BRASIL Ltda.

Alphaville-Barueri-SP-BRASIL Phone: +55 11 4195 7671

HEUFT ASIA LTD.

Hong Kong, CHINA Phone: +86 21 6434 0400

Job Applications +49 2636 56 0

iobs@heuft.com

Visits and Events

+ 49 2636/56-2672

visit@heuft.com

HEUFT LTD.

Tamworth, GREAT BRITAIN Phone: +44 1 827 25 5800 uk@heuft.com

HEUFT ITALIA s.r.l.

Vigevano, ITALY Phone: +39 0381 290411 italy@heuft.com

HEUFT S.A.

Beccar, ARGENTINA Phone: +54 11 4707 0936

HEUFT AUSTRIA GMBH Leobersdorf, AUSTRIA Phone: +43 2256 65556 0

Technical Desk

+49 2636 56 2780 Technical.Desk@heuft.com

Technical Service +49 2636 56 2780

Technical Desk@heuft.com

HEUFT HISPANIA, S.A

Madrid, SPAIN Phone: +34 91 6667 300 spain@heuft.com

HEUFT SCAN Aps

Gilleleje, DENMARK Phone: +45 4836 5070 scandinavia@heuft.com

HEUFT MEXICO, S.A. de C.V.

Naucalpan de Juárez, MEXICO Phone: +52 55 5374 3280

OOO HEUFT EURASIA

Moscow, RUSSIA Phone: +7-495-935-8704 eurasia@heuft.com

Remote Service +49 2636 56 2770

TeleService@heuft.com +49 2636 56 2670

Training@heuft.com

HEUFT QUALIPLUS B.V.

Deventer, NETHERLANDS Phone: + 31 570 6617 00 netherlands@heuft.com

HEUFT USA, Inc.

Downers Grove, USA Phone: +1 630 968 9011 usa@heuft.com

HEUFT Systems Technology (Shanghai) Co. Ltd., CHINA

Phone: +86 21 6434 3911

INTERNET:

E-MAIL:

Sales Request +49 2636 56 2740

Sales.Requests@heuft.com **Spare Parts Request** +49 2636 56 2750

SpareParts.Sales.Requests@heuft.com

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HEUFT SYSTEMTECHNIK GMBH

Brohltalstraße 31-33 • 56659 Burgbrohlv • Germany • Phone: +49 (0) 26 36 / 560 Fax: +49 (0) 26 36 / 56 256 • info@heuft.com • www.heuft.com

Responsible according to the press law: Rüdiger Klueß

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INSPECTION IN PERFECTION



HEUFT ist SYSTEMTECHNIK!

HEUFT SYSTEMTECHNIK GMBH is the leading supplier of highly automated solutions for a precise in-line quality inspection when filling and packaging food, drinks and pharmaceutical products A consistent modular system for a wide range of modules and tasks as well as the continuous innovations of our Development Department generate superior, state-of-the-art inspection systems. Whether sophisticated optical and radiometric detection technologies or particularly efficient image analysis procedures, whether for an empty container inspection or for an extensive quality test of filled pharmaceutical packaging: HEUFT creates solutions with a system because "HEUFT ist Systemtechnik"!

Pharmaceutical packaging inspection

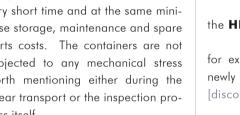
THE STRAIGHT ALTERNATIVE

HEUFT has developed clever alternatives for checking the quality of pharmaceutical packaging such as vials and ampoules based on more than 30 years' experience in detection technologies: fully automatic in-line inspection systems in linear operation!

Compact, fast, reliable and efficient: the innovative HEUFT solutions have a clear advantage compared with conventional rotary systems. Because they manage completely without container carousels: the pharmaceutical packaging no longer has to go round in circles but can run straight through. This straightforwardness pays off. It saves space and makes throughputs of up to 700 products per minute possible. The systems carry out product changeovers without change parts for different container sizes and with

a high degree of automation within a very short time and at the same minimise storage, maintenance and spare parts costs. The containers are not subjected to any mechanical stress worth mentioning either during the linear transport or the inspection pro-

ticular, with this linear principle.



HEUFT revolutionises the in-line inspection of empty and full packaging for pharmaceuticals for oral process administration, as well as parenteral drugs and lyophilised products in par-



Innovations from HEUFT

HEUFT will be showcasing a detection unit for a precise optical ampoule tip inspection on Stand 11 at the PharmaTechnica trade fair which takes place at the same time as the 15th Pharma Congress in Neuss / Germany from

the **HEUFT** spotter PH

for extensively testing the quality of newly filled pharmaceutical containers [discover more on page 2].

For a thorough all-around inspection of glass packaging before the filling

the HEUFT InLine

which even detects mechanical residual stress is first choice [discover more on page 31.

Furthermore HEUFT has numerous other innovative straight-through systems for the pharmaceutical industry in its range. They will not only safeguard the quality of your products but also the efficiency and productivity of all your equipment [discover more on page 3].

HEUFT SPECTRUM TX

ONE STANDARD DEVICE WITH A WHOLE HOST OF POSSIBILITIES!

You know best which tasks have to be performed along your packaging line. The modular construction of the HEUFT SPECTRUM TX series allows you to decide for yourself with which functions you wish to equip your systems for the in-line inspection of pharmaceutical packaging.

A universal standard device forms the basis for tailor-made solutions which meet your specific requirements exactly. All the cross-system technologies are accommodated in

compact, network-compatible control unit. This includes among other things:

- the multilingual HEUFT PILOT graphical user interface with userrelated and password-protected access rights
- the interface for an online connection to database, SCADA and MES systems for archiving batch and production data and for a reliable audit trail documentation
- the interface for remote service

- using the HEUFT TeleService
- extensive product monitoring including reject verification
- · integrated self test functions for regularly checking the detection reliability

HEUFT SPECTRUM TX systems for the pharmaceutical and healthcare sectors therefore provide maximum operational reliability and at the same time meet the fundamental FDA, cGMP, GAMP 5 and 21 CFR 11 requirements.



Empty container inspection

MORE PRECISE, COMPACT AND EFFICIENT

The HEUFT spotter PH sets completely new standards for specifically identifying faulty ampoules, vials and spray bottles.

A high degree of automation, a cleverly arranged optical detection module, a new high-performance image processing system and a consistent linear principle – the HEUFT spotter PH achieves a remarkable detection reliability and profitability during the complete inspection of full transparent pharmaceutical packaging due to all these advantages. The system is the first choice above all for the pre-

cise detection of contaminated, damaged or not reliably sealed containers for parenteral drugs.

The HEUFT spotter PH, as a straightthrough system, is considerably more compact than conventional devices: it requires less than one square metre of floor space. Consequently it is easy to integrate into existing lines or use as a stand alone system in a confined space. Change parts are nowhere to be found inside it and the proportion of moving components prone to wear has been reduced to a minimum compared with common rotary machines. Product changes can be carried out without tools within a very short time.

ner after each of these stations for a complete all-ground inspection – namely each by 120 degrees. The HEUFT reflexx2 image processing system (see page 3) achieves maximum detection reliability with a gap of only 5 mm between the containers even in the high-speed section. It clearly differentiates between critical faults and harmless cosmetic defects. Furthermore it simplifies the cGMP approval of the HEUFT spotter PH with reduced setting parameters and an automatic mask adaptation. User-related access rights, regular password changes and an extensive audit trail log protect the system



against unwanted changes to the adjustments and make all the logins permanently traceable.

STEPHAN BACHMEIER Product Manager Pharmaceutical & Healthcare HEUFT SYSTEMTECHNIK GMBH

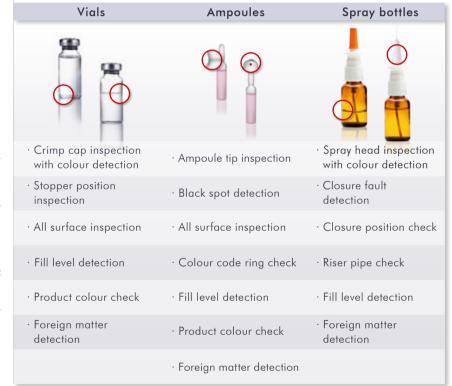


"The linear inspection approach of the HEUFT systems and their clever modular design always make a completely individual machine configuration exactly tailored to the customer's requirements for maximum inspection performance in pharmaceutical packaging lines pos-

Email: Stephan.Bachmeier@heuft.com Phone: +49 2636 / 56 1861

Detecting foreign matter and faults

The system tracks down foreign matter and contamination inside vials. ampoules or spray bottles. This is even possible in dark or coloured liquids due to innovative illumination technologies and special procedures for a bright field and a dark field inspection. Deviations in shape as well as chips, scratches or cracks on the container are also reliably detected. The packaging is guided straight past four detection modules each equipped with three CCD cameras for the complete inspection of all the surfaces. The two below the container-friendly conveyor belt carry out the base inspection and the two above it the sidewall, neck, head and ampoule tip inspection. The containers are rotated in a controlled man-



Crimp cap inspection

FIRMLY AND SAFELY SEALED

The safety of the closure makes the difference! This applies in particular to vials filled with sensitive liauid or lyophilised parenteral drugs. HEUFT also has a suitable module available for the specific inspection of the presence, completeness, integrity, position and brand affiliation of crimp caps as well as a precise stopper position detection

It generates several, optimally illuminated side views of the head and closure area of vials either directly

integrated in the HEUFT spotter PH or alternatively as a single device. The HEUFT reflexx2 image processing system puts them together into a complete 360 degree general view in real time. Another camera checks the presence and colour of the closures from above. Unsealed vials are identified just as reliably as incorrectly crimped, canted or damaged crimp caps or incomplete or non-brand flip off closures.



A THOROUGH COMPLETE EXAMINATION

The HEUFT InLine inspects the complete volume of each individual pharmaceutical container before it is filled and detects foreign matter, contamination, chips, inclusions, cracks and even glass defects which do not exist yet.

The risk of pharmaceutical containers being damaged or contaminated on their journey from the glass manufacturer to the filling plant should not be underestimated. The dangerous breakage of alass occurs on the line too. Costly losses are taken by those who only identify and dispose of the vials, medicine bottles, flacons or pots in question when the high quality drugs are already contained in them. An allground inspection of the empty containers just before the filling process is therefore more than advisable. It should not just be carried out randomly but should include all the surfaces of each individual packaging. The HEUFT InLine fully meets these high requirements.

HEUFT reflexx²

An extremely powerful image pro-

cessing system is required in order

to obtain optimal inspection results

even at high production outputs.

Therefore we have developed our

own which is specifically designed

for our systems. HEUFT reflexx² is

the name of the latest generation

of this hardware and software for

the real-time combination and

analysis of a wide range of detec-

tion pictures. Integrated filter and

evaluation masks clearly distin-

guish between cosmetic defects

and real risks to the product qual-

ity. The HEUFT reflexx² reaches a

new dimension in detection reli-

ability with a false rejection rate

which is in the tenth of a percent

range due to greatly increased

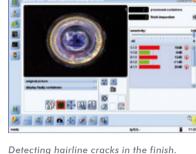
computing power, resolution,

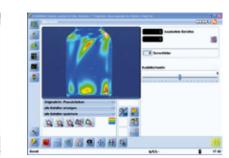
colour depth and contrast.

The compact straight-through system equipped with highly developed modules for an optical base, sidewall, thread and finish inspection and the HEUFT reflexx2 image processing system takes over the thorough complete examination of empty containers. Special image analysis algorithms filter out packaging structures such as knurling marks, press marks or cavity numbers effectively in the course of this. Nevertheless the container areas in question are completely inspected so that glass chips, chipping, inclusions, spikes, bird swings and contamination are also reliably identified there.

Preventing glass breakage

The detection of minute thermal cracks and the finest hairline cracks in the container finish is achieved by means of a multicoloured LED complete illumination of this area and a sophisticated camera, filter and image analysis technology. It is even more difficult to identify qual-





Making mechanical residual stress visible

ity defects such as cracks and alass. breakage before they occur. The HEUFT InLine solves this problem with especially developed optical technologies. They make mechanical residual stress visible in the containers which reduces their breaking strenath.

The packages in question are consistently removed by the system. Container tracking and reject verification ensure that each individual one is really inspected and each faulty one is removed. The vials, bottles or pots are specifically rotated on their journey through the device so that the inspection covers their complete volume. A servo-controlled conveyor

belt carries out a specific anale of rotation for each type of packaging so that they are exactly aligned at all the detection stations. In addition the servo technology reduces the proportion of components prone to wear and makes fast and uncomplicated product changes a reality due to clearly reproducible brand adjust-

Other HEUFT products

THE CORRECT SOLUTION FOR ANY EVENTUALITY

We have numerous other highly efficient linear machines for the complete inspection of the product and packaging on pharmaceutical and healthcare lines in our range in addition to the solutions presented in this issue. The highlights:

• the HEUFT VX OCR verifies the presence, grading and readability of PPN codes and that the contents correspond to the alphanumeric information on the pharmaceutical packaging

• the HEUFT VX checks the fill level, closure and labels, monitors the complete filling process including the detection of serial faults and issuing of exact production statistics as well as sampling under production conditions

• the systems of the HEUFT squeezer series check the integrity and tightness of plastic packaging filled with enteral and parenteral liquids such as stand up pouches or infusion bottles



The solutions of the HELIET modular system effectively contribute to excluding recalls and product liability cases and to increasing the profitability of complete lines. Numerous successful installations all over the world are proof of this.

