HEUFT eXaminer II XB // Top-down inspection

SIMPLY DETECTING MORE!

Minute foreign particles in lyo products, hidden hypodermic needles, incomplete or incorrectly packaged tablets: the new HEUFT eXaminer II XB identifies vials, syringes and blister packs with such quality defects even more precisely and simply easily!

It is the only top-down inspector to combine the pulsed X-ray technology exclusively available from us (see the info box on page 2 – Flashing instead of scanning!) with compact full-field image converters.

The new HEUFT SPECTRUM II device platform provides a considerable increase in computing power and automation and at the same time tracks products with millimetre accuracy. The audiovisual HEUFT NaVi user guidance makes the system self-explanatory. And HEUFT reflexx² real-time image processing with teaching in capability clearly differentiates between harmless irregularities and critical faults. The result: a new dimension in range, detection, rejection and operational reliability during the in-line inspection of filled pharmaceutical primary packaging.

The unique combination of pulsed X-ray technology with smart multiple flash option and optimally arranged image converters extends the sensitive detection surface of the HEUFT eXaminer II XB at a higher resolution. Larger products can also be inspected continuously and with high precision in this way. Even the parallel examination of two products at the same time is now possible with it. The extremely clear detection pictures remain free of distortions and aberrations even in the border areas.

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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.

Unique camera, X-ray and image processing technologies for a precise empty and full container inspection, trend-setting labelling technology and smart tools for container flow optimisation, production data acquisition and performance analysis safeguard product quality and line efficiency sustainably!

A consistent modular design principle with a cross-system control unit for the most varied technologies, procedures and modules generates, together with a high component equality, the correct automation solution for every application. Those who decide in favour of a user-friendly HEUFT system can depend on a high level of operational reliability. Competent support is always guaranteed with the long-term availability of spare parts and the 24/7 on call service.

This concept keeps the globally operating company on a dynamic course of growth. In the meantime the number of employees has long since exceeded the 1,000 mark. Its own locations in 14 different countries and a comprehensive network of service bases on all five continents meet the huge demand for the HEUFT systems which are manufactured exclusively in Germany.

The result: more safety, quality and efficiency during the filling and packaging of food, drinks and pharmaceuticals.

HEUFT knows how!
The unique HEUFT X-ray studies (see info box – Flashing instead of scanning!), which make the use of full-field image converters possible in the first place, carry out a static top-down inspection in contrast to the classic line scanner: the reliable detection of foreign substances and all types of end product and packaging faults is therefore also possible when the self-adapting conveyor has stopped. The X-ray generators and the high-voltage components have also been sustainably optimised. Thus there is considerably more flexibility when adapting the height of the conveyor with radiation emission which has been reduced even further. Cooling is not required and therefore product contamination by possible coolant leaks can be ruled out.

This significantly increased degree of automation and the performance of the universal HEUFT LIMUS™ control unit with its automated HEUFT Info user guidance make the reliable operation of the new HEUFT Info® II for an even more precise detection and rejection of contaminated, faulty or incomplete pharmaceutical packaging gently easy.

... Continued from page 1 – SIMPLY DETECTING MORE!

HEUFT Syringe//The inspection of injection instruments

Safeguarding syringes and cannulas!

Our unique pulsed X-ray technology is ideally suited for a wide range of applications when filling and packaging pharmaceutical products – and can be integrated into the line without a problem. ACHIRA customers can even see this for themselves at the HEUFT stand; we have integrated the new HEUFT Syringe module, especially for the inspection of syringes and cannulas, directly into the equipment of the specialists for pharmaceutical packaging machines. Whether bent needles, pierced protec-

Syringer at the HEUFT stand: we have integrated into the line without a problem. ACHEMA applications when filling and packaging pharmaceuticals, the unique pulsed X-ray technology is not required and therefore product contamination has been reduced even further. Cooling is not required and therefore product contamination by possible coolant leaks can be ruled out.

This significantly increased degree of automation and the performance of the universal HEUFT LIMUS™ control unit with its automated HEUFT Info user guidance make the reliable operation of the new HEUFT Info® II for an even more precise detection and rejection of contaminated, faulty or incomplete pharmaceutical packaging gently easy.

The HEUFT X-ray modus operandi foreign matter and contamination in vials using modern camera technology. Special procedures make a reliable fault detection possible even in coloured or dark liquids. Deviations in shape and cracks are also detected reliably. The contaminants are guided past four different detection units for a complete examination. The sensor-controlled conveyor belt rotates the primary packaging in a manual and controlled manner after each of these stations. It covers more than 360° of of the belt drive as well as the position of the detection units adapt themselves fully automatically to the type of container product changes due to clearly reproducible mechanical residual stress which reduces the breaking strength of glass primary packaging visibly. Thus the HEUFT Info® II already identifies critical defects before they can occur. The information in question are consist-

euntly rejected. The HEUFT PCD/Info collects all the pictures of faults in order to document and archive them sustainably.

The empty containers are primarily aligned at each detection station of the efficient linear inspection system clearly differentiates between critical faults and harmless deviations and remembers individual quality criteria. Therefore, only faulty products are rejected. In addition, modified setting parameters and an automatic read adaptation simply the cGMP approval of the device. The range of functions of the HEUFT syringe FH can be further expanded by means of special modules for the inspection of ampoules or cartridges. It has less than one square metre of floor space and is therefore easy to integrate into existing lines or use as a stand-alone system in a confined space.

Product changes can be carried out quickly and without tools. 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.

The modular system for the reliable detection of fill level deviations can be equipped with infrared, high frequency in X-ray technology. The latter detects critical underfills even when the container is not transparent. Integrated quantifying converts the individual measuring results into the actual fill volume. Photocells inductive sensors check the presence of the closures. Cameras verify brand-specific codings, closure logos and coding. Special illumination technologies produce contour views for the clear identification of canted closures or damaged safety elements. The HEUFT VISION 260 module carries out an extensive ampoule inspection together with a stopper position check and makes even the smallest faults visible. Filled pharmaceutical packaging with quality defects are therefore identified reliably. A special mini version of the HEUFT ELSA-FW rejects them in an upright position. In addi-

tion, the inspection station automatically adapts the respective brand product changes can be carried out fast, easily and without manual intervention.

The HEUFT ALINE IS® / Vial inspection

Covering everything and finding everything!

Foreign particles, glass chips, cracks and scratches: the HEUFT syringe FH reliably removes primary packaging for pharmaceutical drugs with faults from the volume in the course of this – there are no blind spots! The HEUFT Info® II’s real-time image processing system clearly differentiates between critical faults and harmless deviations and remembers individual quality criteria. Therefore, only faulty products are rejected. In addition, modified setting parameters and an automatic read adaptation simply the cGMP approval of the device. The range of functions of the HEUFT syringe FH can be further expanded by means of special modules for the inspection of ampoules or cartridges. It has less than one square metre of floor space and is therefore easy to integrate into existing lines or use as a stand-alone system in a confined space.

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LOGGING EVERYTHING ACCURATELY AND RECORDING IT PERMANENTLY!

Whether audit trail documentation or the transmission, processing and archiving of important production data, operating figures and batch information: the HEUFT PROFILER advanced manages essential process and product data in real time.

Who logged in and when? What access rights does the employee have at all? And what exactly has he changed? The HEUFT PROFILER advanced always has an answer to such questions. It generates complete audit trails which record all the operating and process information of network-compatible HEUFT and non-HEUFT devices and displays this in documents which can be put together individually in order to protect against unauthorised intervention and manipulation. Therefore the actions of all the users are clear and documented in such a way that they cannot be altered throughout the complete operating life of the respective systems. Furthermore the powerful IT tool logs, transfers and archives counter readings, product and process data, among other things, in real time and compiles this into batch-related statistics and complete batch reports, which can be quite simply created and printed in PDF format, in accordance with 21 CFR Part 11. The HEUFT PROFILER advanced also imports the detection pictures of faulty products recorded by the HEUFT picCollect (see page 3 – HEUFT InLine IS) to databases. The same applies to the results of the code grading (see article below). These can also be processed statistically and illustrated in clearly arranged diagrams. In addition they can be individually divided up into different categories and therefore it is possible to determine as from when suboptimal marking quality should result in the rejection of the container in question.

Code verification and monitoring

PREVENTING DRUG COUNTERFEITING!

An innovative HEUFT solution takes over the precise examination of discreet 2D laser matrix codes for the unique marking of primary packaging as well as continuous product tracking including real-time data management. The result: full traceability for effective protection against drug counterfeiting.

The optical, all-around inspection of filled vials not only includes the verification of the contents of the stored product and batch data but also the grading of the GS1 coding in accordance with ISO / IEC 15115. The detection unit, suitable for eARBS, cARBS and isolators, can check the fill quantity and closure position and detect minute glass defects at the same time. Full detection reliability is always provided even when the containers are not aligned. A special HEUFT rejection system removes them from the production flow if they are faulty – entirely without the use of compressed air. Thus the solution meets the high class A clean room standards. Its mechanical design allows unrestricted use in laminar flow areas.

The actual position of all coded primary packaging can always be determined with millimetre accuracy due to permanent monitoring. The result: perfect traceability throughout the entire process chain. Real-time data management ensures the efficient transmission, reliable serialisation and sustainable archiving of the verified unique identifier and batch data. Therefore the cGAMP and GAMP compliant new development makes an important contribution to the end to end verification of the authenticity and safety of drugs and thus the implementation of the EU counterfeiting directive.

A special feature is the compact combination of reliable code verification, continuous product tracking and real-time data management is integrated in the ALUS® load system of a freeze dryer at the exhibition presence of GEA.

24/7 on-call duty

HEUFT WILL NOT LEAVE YOU ON YOUR OWN!

We will remain a reliable partner at your side even after the purchasing and commissioning phases in order to ensure the full availability of your HEUFT system in the long term. Day after day. Around the clock. All over the world. Competent support is provided by

- the HEUFT TeleService for online remote diagnosis and maintenance
- the HEUFT PhoneService for intensive advice on the telephone
- the HEUFT DirectService for prompt on-site visits

You can also benefit from our extended 24/7 on-call duty! An after sales support contract with tailor-made service and maintenance packages offers particularly attractive conditions.

GET IN TOUCH!

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