

BLOW FILL SEAL WITHOUT FAULTS HEUFT *spotter II BFS*

Complete inspection and integrity testing of filled pharmaceutical blow fill seal primary packaging.

Straight-line systems from the new HEUFT *spotter II BFS* series achieve full detection reliability during the complete inspection of blow fill seal ampoules and infusion bottles for the safe administration of liquid preparations. Defects which, for example, occur in the manufacturing process of *small volume*

parenterals (SVP) or *large volume parenterals (LVP)* and can affect the quality of the end product are reliably detected during the gapless inspection which covers all the surfaces of each individual container from the top to the bottom edge.



FULL MEDICAL SAFETY FROM START TO FINISH

From blister to cannula, from vial to BFS bottle, from leaky to hermetically protected, from contaminated to free of foreign substances, from hazardous to safe. From A to Z:

HEUFT ensures the quality, safety and compatibility of pharmaceutical products from start to finish. Defects and impurities are already reliably identified during the all-round inspection of empty primary packaging. The inspection of the fill level and the closure integrity guarantees a consist-

tently high product quality. And with the pulsed X-ray technology which is exclusively available from HEUFT even the gentle identification of dangerous foreign objects which are concealed in the pharmaceutical product is successful.

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!

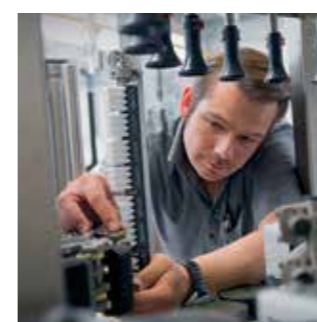
Training@heuft.com
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SERVICE

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
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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
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BLOW FILL SEAL INSPECTION

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GAMP5
21 CFR Part 11
FDA
cGMP

BLOW FILL SEAL BOTTLE INSPECTION

HEUFT *spotter II* BFSB

Flawless blow fill seal infusion bottles

- Complete and gapless optical inspection of BFS infusion bottles filled with up to 1,000 millilitres of *Large Volume Parenterals (LVP)*
- Reliable detection of damage, scratches, scores, inclusions, black burns, foreign particles, shape and colour deviations, material shortages and excesses and cosmetic defects
- Precise leakage control and leakage detection

No blind spots

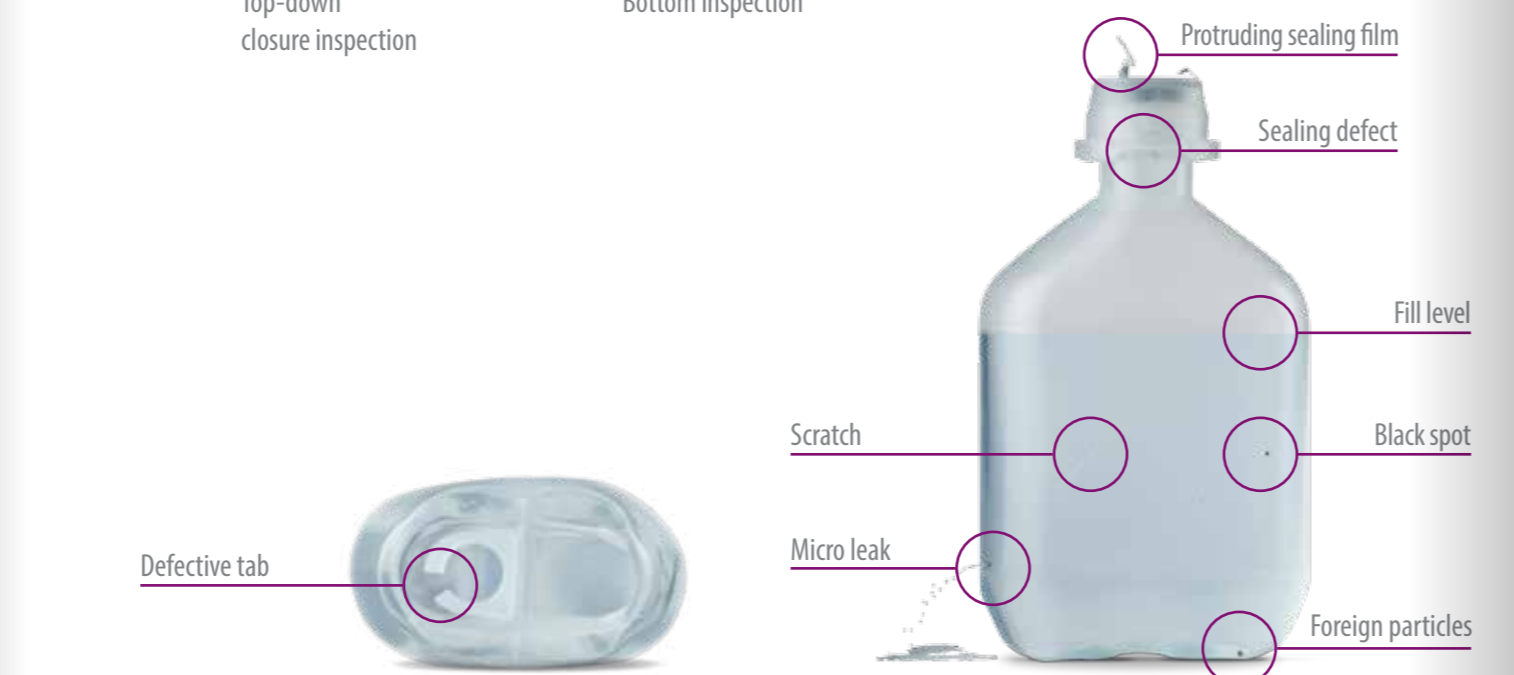
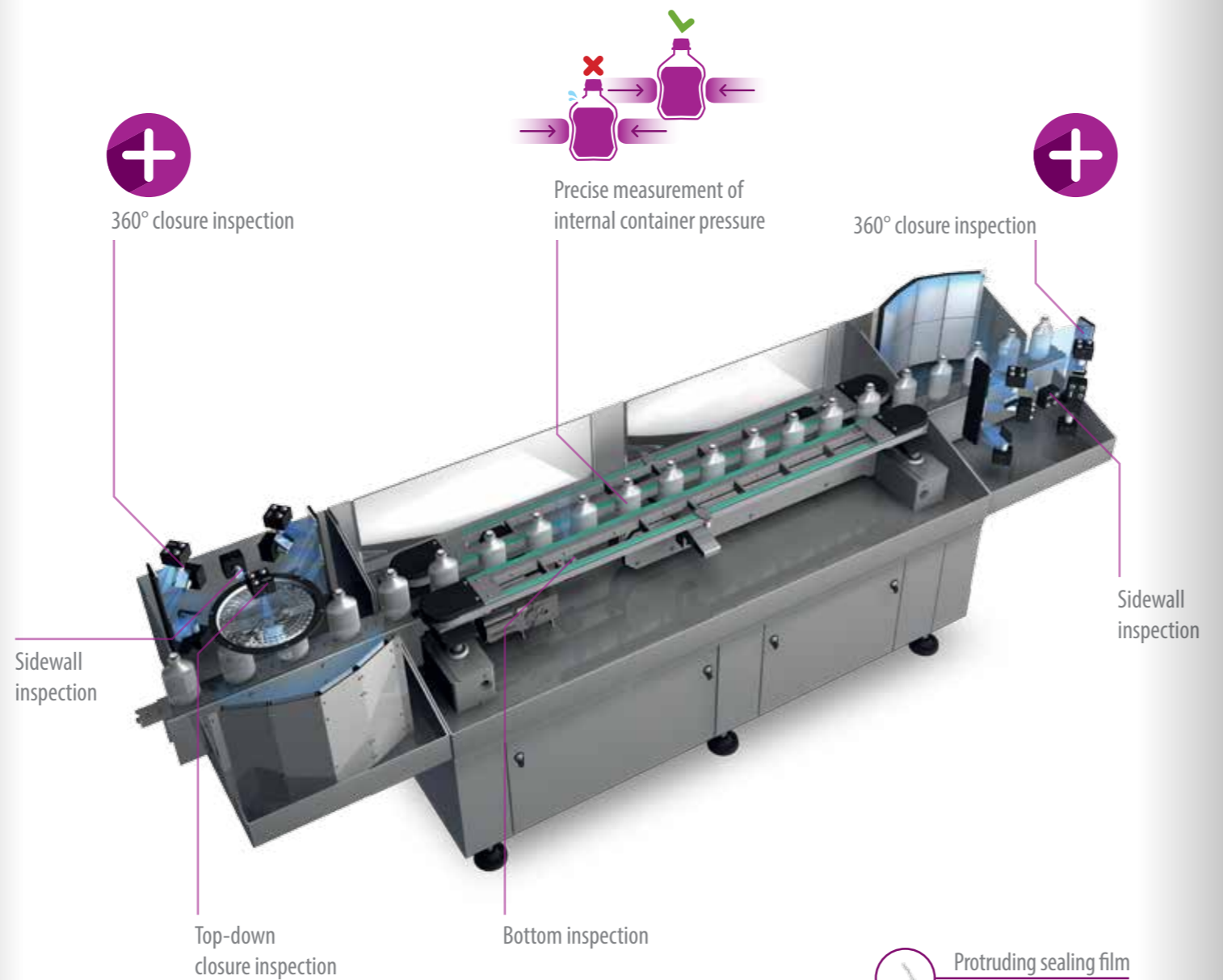
- Full coverage top-down and sidewall inspection from closure to bottom edge with intelligent adaptive illumination, optomechanics, image subtraction and evaluation
- Frontal view of the upper body area for clearer detection of cosmetic defects, foreign particles floating on the fill line and faulty fillings
- Optional 360° closure inspection for even greater precision in detecting defects on the closure wall, deformed closure ports, incomplete sealing rings and protruding or torn sealing foils

Parenterals without contamination

- Servo-controlled belt drive for bottom inspection from below and exertion of a precisely definable force on the body of the infusion bottles
- Reliable detection of, among other things, cracks, foreign particles or defective hangers on the container base
- Precise differential pressure measurement with one sensor each in the inlet and outlet for reliable detection of micro-leaks for uncontaminated, microbially pure contents

Straightforward design, full automation

- Space-saving complete inspection in efficient straight-line design
- Full automation for reliable operation and easy brand and format changes
- Future-proof online connection for audit trail documentation and remote maintenance
- FDA, GMP, GAMP5 and 21 CFR Part 11 compliant



GAMP5
21 CFR Part 11
FDA
cGMP

BLOW FILL SEAL AMPOULE INSPECTION

HEUFT *spotter II* BFSB

Defect-free blow fill seal ampoules

- 100 % all-round inspection and integrity testing of BFS ampoule strips
- Smart LED illumination, optomechanics, image subtraction and evaluation for the reliable identification of damage, deformations, foreign particles, faulty fillings, product colour deviations, inclusions, black burns, cosmetic defects and closure faults

Complete and gapless inspection

- Optical top-down and bottom inspection and clever alternating inspection of the top and bottom side walls for complete coverage of the full container volume without gaps
- Reliable detection of deformations, contamination, scratches, scores and excess or insufficient material from the ampoule closure to the bottom of the ampoule

Full detection reliability

- Full precision in the detection of foreign particles floating in the product or lying on the base thanks to self-developed, high-resolution cameras
- Adaptive special illumination and image processing for the detection of greasy contaminants and black burns
- Reliable identification of deviations in fill quantity and product colour

Long-term operational reliability

- Compact linear system without format parts for minimum maintenance, easy automatic programme changes and long-term operational reliability
- Network connection for, among other things, complete audit trail documentation and online remote maintenance
- Reliable compliance with basic FDA, GMP, GAMP5 and 21 CFR Part 11 requirements

