



OUTER PACKAGING CHECK

HEUFT VGX



Outer packaging in top shape



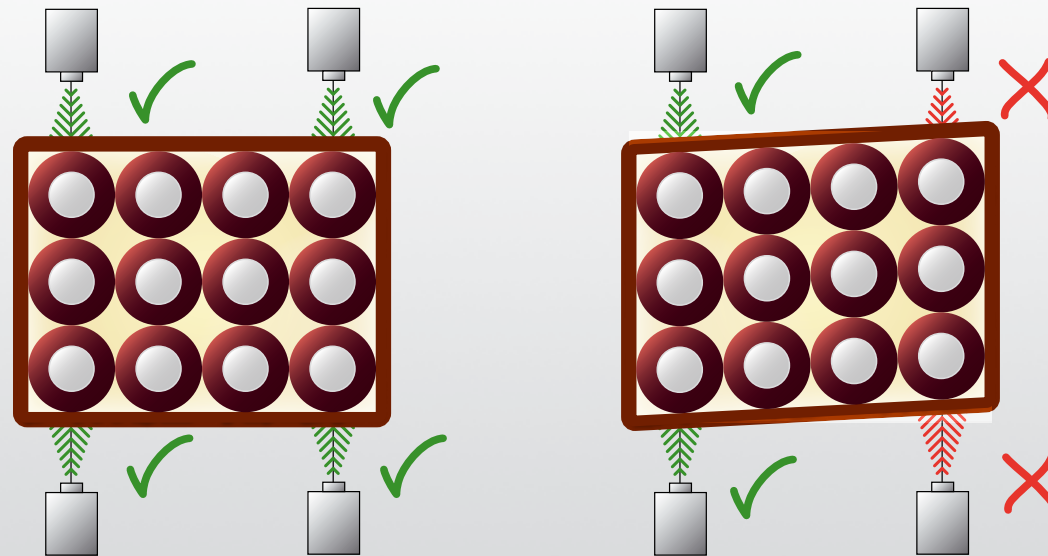
The HEUFT VGX checks the quality features of newly filled outer packaging for pharma and cosmetics products such as trays and cardboard boxes even before they leave the production line.

It identifies deformations, raised cardboard box flaps, incorrect colours, logos and coding just as reliably as missing units inside a case.

Outer packaging which does not comply with the quality specifications is automatically sorted out. For this the device activates HEUFT rejection systems. The HEUFT VGX also identifies serial faults and generates a switch-off pulse before it is too late.

In the meantime the system is best suited for the quality assurance of outer pack-

aging of other products. This is particularly true of the healthcare sector.



Measuring the diagonals of a cardboard box

Those who want to get through have to be in top shape



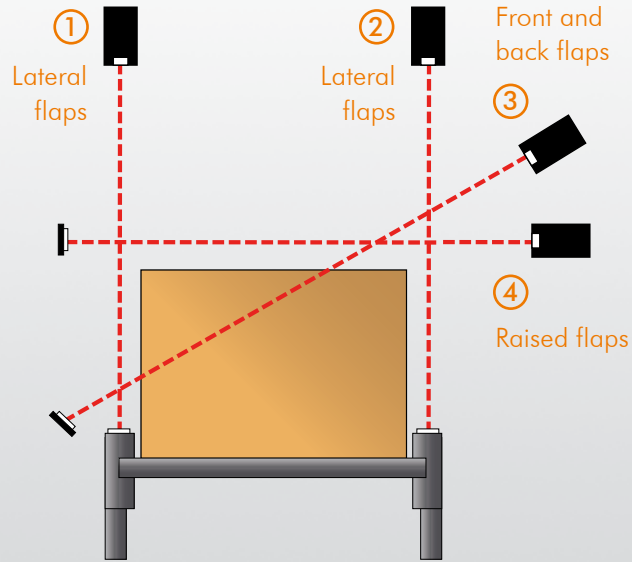
You sometimes have to stack up high - anyhow if you wish to transport and store full cases reliably. This does not always succeed if they are out of shape. There is also the danger that their contents can only be removed with a great deal of effort.

The HEUFT VGX detects cardboard boxes and trays which have been

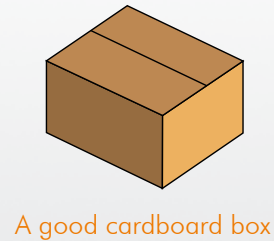
deformed in such a way using ultrasonics. For this two sensors at the conveyor measure the distances to the case. The outer packaging is out of shape in this area if these differ on both sides and exceed certain limit values at the same time.

Only cases which keep their shape get through. They are rejected before load-

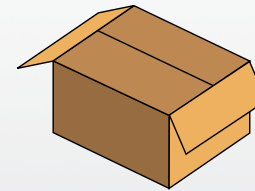
ing if their dimensions have changed to such an extent that they lose their functionality.



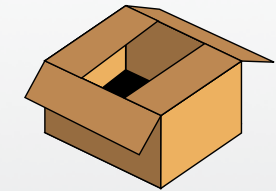
Sensor arrangement - the cardboard box is scanned by 4 sensors



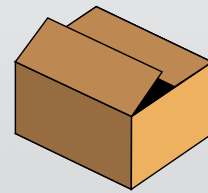
A good cardboard box



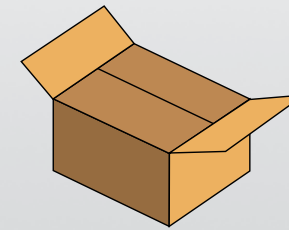
A faulty cardboard box: detection via sensor 3



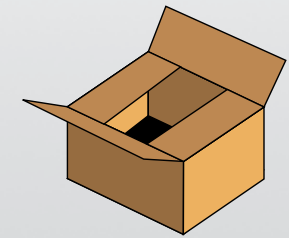
A faulty cardboard box: detection via sensor 1 and sensor 2



A faulty cardboard box: detection via sensor 4



A faulty cardboard box: detection via sensor 3



A faulty cardboard box: detection via sensor 1, sensor 2 and sensor 4

Dispensing with raised flaps

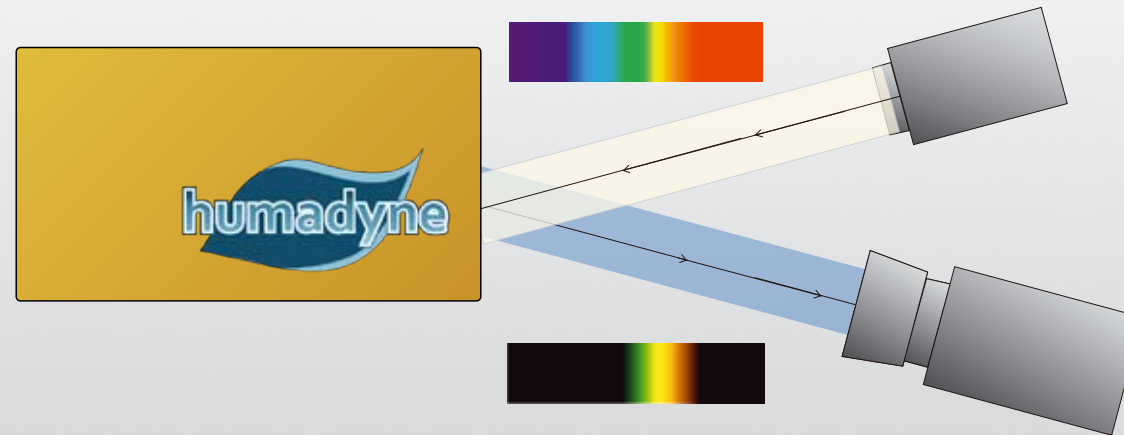


Raised cardboard box flaps are not a pretty sight. However the effectiveness of the packaging is more important than the aesthetics. And this is lost if the flaps are raised. In this case the cardboard box is not correctly closed and the safety of the products contained in it are at risk.

The HEUFT VGX also finds such faults. It checks the position of the cardboard

box flaps and that they fit correctly using four sensors. They scan the edge areas of the box and provide changed measured values if they are covered by protruding flaps.

No matter where the fault is: it is detected by the HEUFT VGX with certainty. Therefore unattractive carton packages and those which are not tightly closed do not leave the production plant at all.



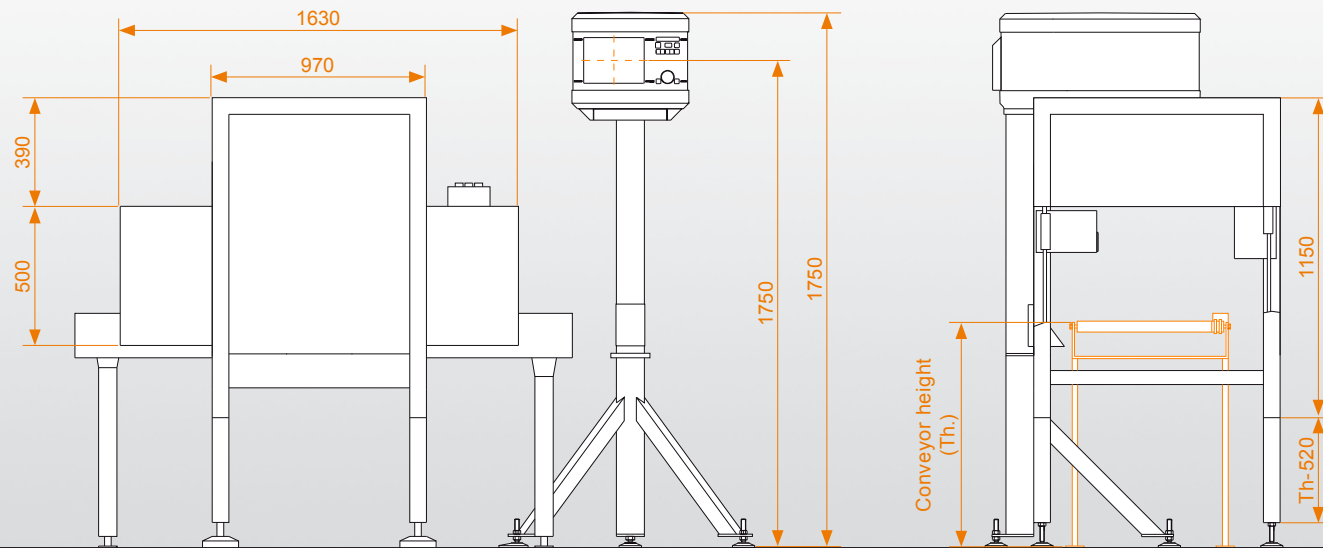
Do not fear the variety



The variety of products is also constantly increasing particularly in the healthcare sector. Cases with many different designs are frequently used along a line. The HEUFT VGX rules out intermixing by means of the optional colour, logo, coding and marking detection.

A special camera system differentiates between the various case colours. The

HEUFT VGX photographs up to seven different logos per case and compares them to the originals previously read in. A special sensor reads coding such as expiry dates and 2D codes which have been applied. Keeping track despite an increasing diversity of products: the HEUFT VGX makes it possible.



Specifications



The HEUFT VGX detects even the smallest fault with the highest accuracy. The proportion of false rejections is extremely low.

- the HEUFT VGX detects the colours and logos of outer packaging with a reliability of over 98% - the share of false detections is less than 0.5%
- the X-ray completeness check identifies correctly filled cases with a reliability of 99.5% - the false rejection rate is less than 0.05%
- the maximum conveyor speed is up to 60 m/min depending on the rejector



Your cost advantages with HEUFT



Highest product safety at a fair price. The HEUFT VGX full case check is a worthwhile investment for the future the cost of which pays for itself quickly. It

- reduces personnel costs - it is no longer necessary to have an operator at the packing machine
- prevents costly complaints and recall actions
- it prevents costly line stops and increases the total output of the line
- detects serial faults and reduces the extent of false production by emitting an automatic switch-off pulse
- has a modular design and can be extended with other features cost-effectively and easily
- minimises maintenance costs due to its compact and open construction, its standardised, hardwearing design and advantageous spare parts storage



Networking



- integrated Ethernet interfaces as well as TCP / IP access to all networks
- connection capability to a pre-configured DDE interface and SQL database
- operation possible either via jog shuttle or touchscreen on the TFT screen at the device or via a network
- the HEUFT *PILOT* graphical user interface with a comprehensible menu structure for easy operating
- automatic transfer of counter readings or fault messages by SMS to a mobile phone or by e-mail if required
- firewall protected connection to the remote service via Ethernet - the

HEUFT *TeleService* can access the equipment directly and rectify faults at short notice by means of remote diagnosis if the customer wishes



The HEUFT PILOT



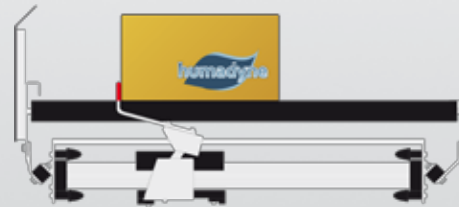
- multilingual, simply arranged, comprehensible menu structure with extensive help boxes and complete online user's manual - the user interface can be supplied in any language / graphic characters if required
- easy identification of spare parts with online and offline spare parts list with photographs and exploded views - the order can be sent from

the device either to an internal purchasing department or directly to HEUFT

- password-protected operator levels, can be freely adjusted to suit the tasks of the operating staff, the quality assurance department etc.
- the operator receives all the information during a brand changeover regarding the necessary steps in

order to exclude possible operating errors

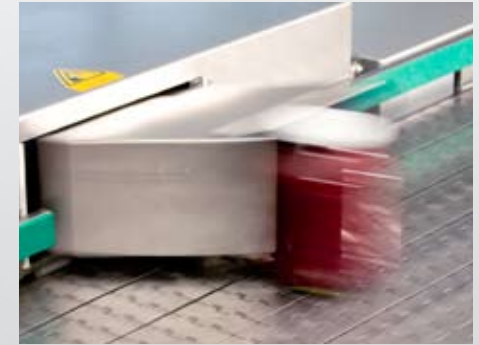
- clear fault messages with service notes and support in order to avoid downtimes



The HEUFT *xtray*



The HEUFT *maxi-laner*



The HEUFT *maxi-flip*

The HEUFT *case rejector*

The following rejection systems can be used with the HEUFT VGX full case check:



The HEUFT *xtray*

- rejection of cases
- minimum maintenance and space required
- no changeover work required for a product change

The HEUFT *maxi-laner*

- rejection of cases onto parallel conveyor chains
- particularly smooth transversal acceleration of the containers
- no changeover work required for a brand change
- a load-dependent control system indirectly weighs each case and calculates the rejection force required

The HEUFT *maxi-flip*

- extremely precise system for the rejection of cases onto parallel conveyor chains
- load-dependent control system
- low wear and tear
- no changeover work required for a brand change
- minimum maintenance and space required



The HEUFT VX

The HEUFT *FinalView FX*The HEUFT *squeezer QA*

Other HEUFT products



The HEUFT VX

- overfill and underfill check
- monitors the filling process as well as providing exact production statistics
- closure detection
- checks the label presence and alignment
- verifies the applied label information such as barcodes, expiry dates and 2D codes

- serial fault detection which emits a switch-off pulse
- automatic or manual sampling

The HEUFT *FinalView FX*

- optical all-around check of the finished product
- examines the label alignment (absolute and alignment in relation to one another) and verifies the labels
- checks and verifies coding

- extensive closure inspection
- up to 1,200 containers per minute

The HEUFT *squeezer QA*

- leakage check for healthcare containers made of HDPE, PET and other plastics
- closure inspection
- fill level detection for underfills or overfills



CONTACT DETAILS

HEUFT SYSTEMTECHNIK GMBH

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

HEUFT LTD.

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

HEUFT HISPANIA, S.A.

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

HEUFT QUALIPLUS B.V.

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

HEUFT FRANCE S.A.

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

HEUFT ITALIA s.r.l.

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

HEUFT SCAN Aps

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

HEUFT USA Inc.

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

HEUFT DO BRASIL Ltda.

Alphaville-S.P., BRASIL
Phone: +55 11 4195 7671
brasil@heuft.com

HEUFT S.A.

Beccar, ARGENTINA
Phone: +54 11 4707 0936
argentina@heuft.com

HEUFT MEXICO S.A. de C.V.

México, D.F., MEXICO
Phone: +52 55 5562 8450
mexico@heuft.com

HEUFT Systems Technology Co., Ltd.

Shanghai, CHINA
Phone: +86 21 6434 3911
china@heuft.com

HEUFT ASIA LTD

Hong Kong, CHINA
Phone: +86 21 6434 3911
asia@heuft.com

HEUFT AUSTRIA GMBH

Leobersdorf, AUSTRIA
Phone: +43 2256 65556 0
austria@heuft.com

OOO HEUFT EURASIA

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

INTERNET:

www.heuft.com
E-MAIL:
info@heuft.com

The HEUFT VGX outer packaging check

checks full cases such as trays and cardboard boxes



FUNCTIONS

The HEUFT VGX detects

- missing containers in a full case
- raised cardboard box flaps
- the colours, logos, marking and coding of the outer packaging
- deviations as regards the case dimensions

[more] *

THE ADVANTAGES

- easy integration into existing lines
- simple upgrading and retrofitting due to modular construction
- rapid processing - conveyor speed up to 1 m/sec
- automatic product changeover
- convenient operating with the multi-lingual HEUFT PILOT graphical user interface with plain text display
- software oscilloscope for analysing measured values

The multilingual HEUFT PILOT user interface with plain text display and software oscilloscope for analysing measured values

[more] *

Four sensors check the position of cardboard box flaps and that they fit correctly

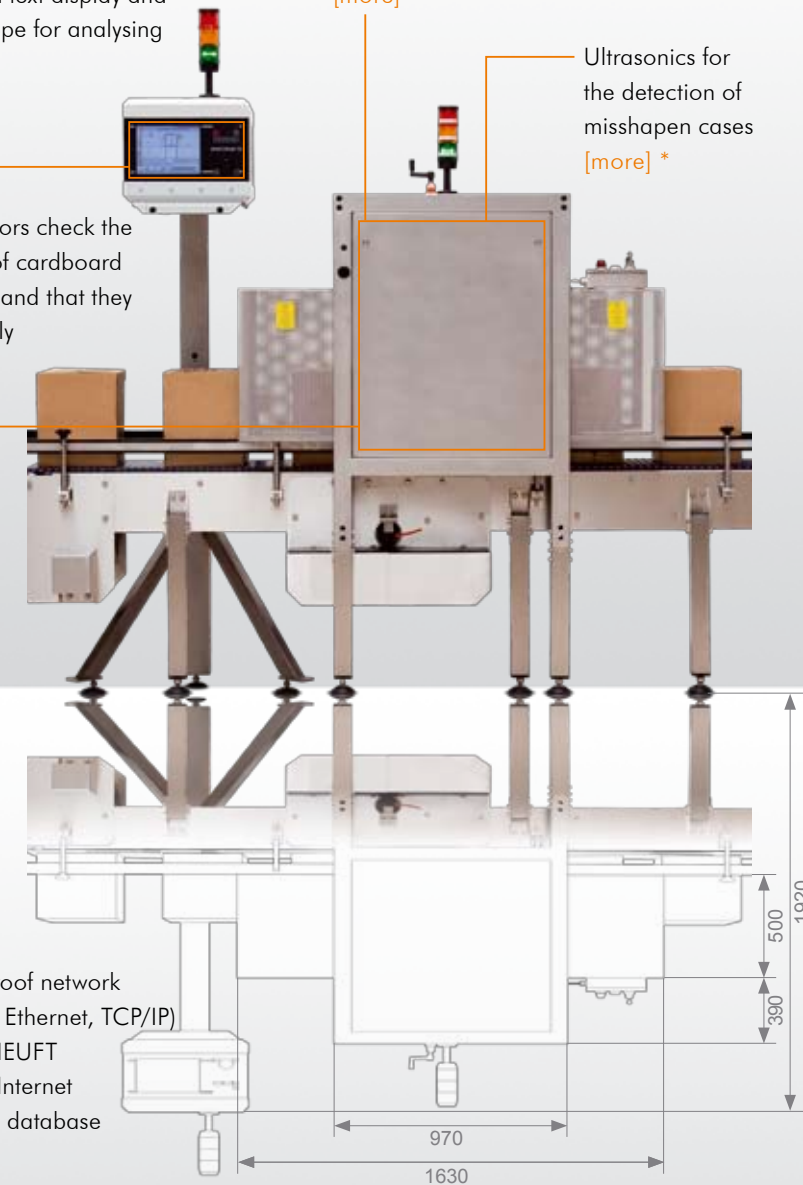
[more] *

Optional colour, logo and coding detection for cardboard boxes

[more] *

Ultrasonics for the detection of misshapen cases

[more] *



- integrated future-proof network interface (Industrial Ethernet, TCP/IP)
- connection to the HEUFT TeleService via the Internet and the SQL / DDE database interface

[more] *

* [more] detailed information on www.heuft.com/vgx

