



CONTAINER REJECTION

HEUFT *rejector*



Groundbreaking systems show containers the way

Those who want to safeguard the quality of their products with lasting effect and optimise the efficiency of their production line cannot get past the HEUFT rejection and laning systems. Neither can a foreign or damaged container.

HEUFT has set standards as the inventor of the ingenious multi-segment principle for the particularly reliable and careful laning of containers. A great deal of

know-how in the multi-segment rejector sector and the ongoing further development of these premium devices have ensured us market leadership for the past thirty years.

In addition to such extremely sensitive and versatile solutions the HEUFT portfolio also includes single-segment rejectors. They are a cost-effective alternative in many areas of application.

The groundbreaking multi-segment and single-segment rejection systems ensure, together with the HEUFT checking and inspection solutions, that only those containers which are perfect and faultless can continue their way along the line. They do a good job as an ideal extension to these high-precision devices: nothing and no-one can get past them.





Multi-segment rejectors: at the right place at the right time



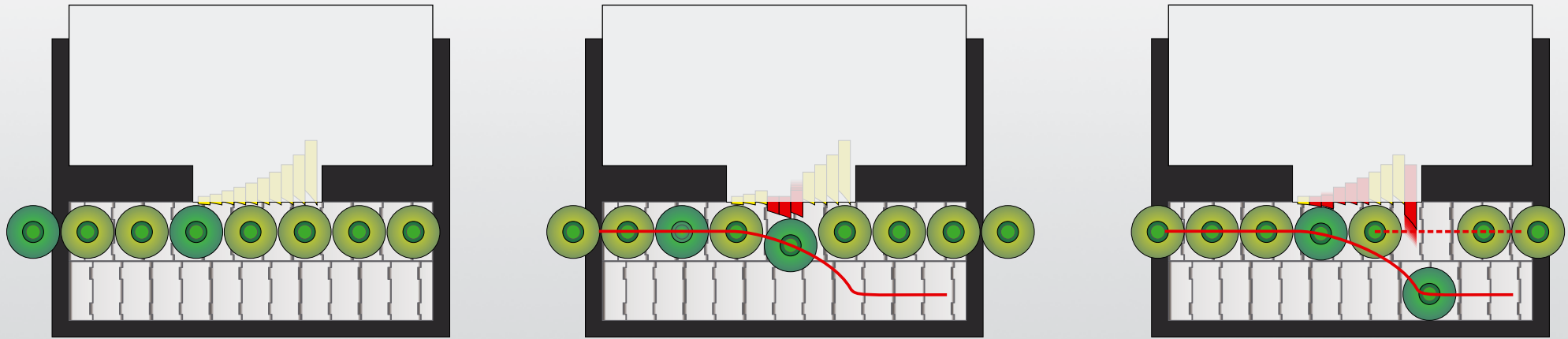
Whether round, oval or angular containers, whether conical bottles or spray cans, whether single lying containers or serial rejections: HEUFT has the corresponding multi-segment rejector in its range for the most different container sizes, shapes and materials as well as for the most varied applications.

They distribute containers onto different lanes or remove them completely from

the production flow. Change parts do not have to be replaced during a product change.

Several segments which are always at the right place at the right time form a rejection curve which shows the container the right way. The segments which can be individually activated do not extend if it should continue straight on. This only occurs when a container should

be sorted out. The rejection segments are not retracted but remain activated when several faulty containers follow one another until the complete batch in question has been removed from the production flow. The result: maximum movement efficiency and minimum wear and tear.



The HEUFT *DELTA-FW*: separating full containers which are good from those which are faulty



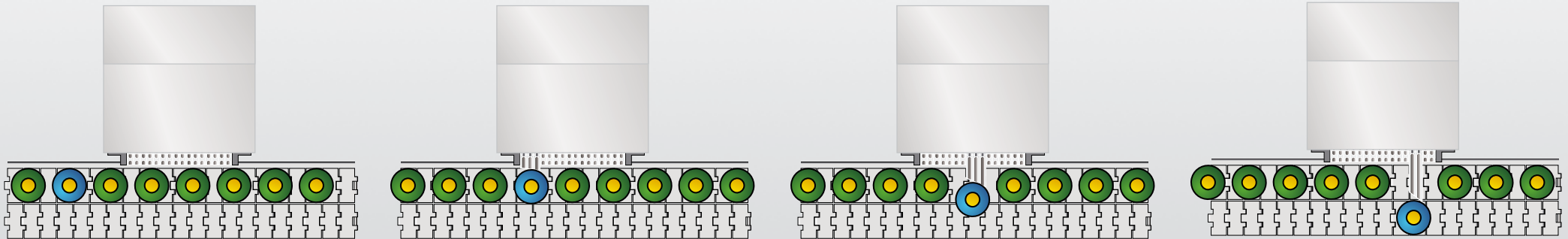
It was the first of its kind and still sets standards today. The HEUFT *DELTA-FW* was especially developed for the upright rejection and laning of round, filled containers. It also sorts out lying containers. Furthermore it can also be used in the Ex area for the reliable rejection of aerosol containers.

It has up to sixteen segments which form a rejection curve along which the

containers are guided. This is a result of the different shapes of the individual segments and the different lengths of the pneumatically activated high-speed cylinders which move them.

When a good container follows a faulty container the segments are only extended briefly so that the good filled container is not touched under any circumstances but the faulty container is rejected in any

case. The segments are permanently extended in the case of serial rejections for which the rejector is ideally suited. This reduces the number of movements and consequently the mechanical wear and tear to a minimum. The tips of the segments of the HEUFT *DELTA-FW* can be provided with brushes for particularly sensitive containers. This practically excludes any damage during the rejection process.

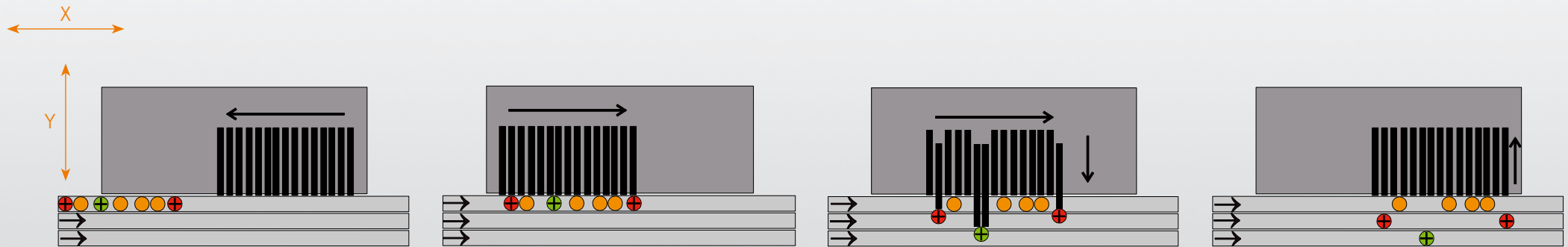


The HEUFT *DELTA-K*: ideal for rejecting difficult containers



The sorting or upright rejection of containers and the distribution of full and empty containers: this works best of all with the HEUFT *DELTA-K* rejector with hinged segments. It has up to sixteen segments which are not extended but folded out in order to form a rejection curve. The advantage: individual containers can be sorted out without touching the preceding or subsequent containers.

For this each of them are only touched at one point - namely exactly at their centre of gravity. For this reason the HEUFT *DELTA-K* is ideally suited for the rejection of shaped or lightweight containers. It also copes very well with serial rejections so that wear and tear is minimal and consequently so is the amount of maintenance it requires.



⊕⊕ Containers to be distributed

The HEUFT XY: the system for difficult types



Distributing full containers made of PET, HDPE and glass and even packages onto up to four lanes and sorting empty containers and rejecting bottles with great care without changing their alignment: the HEUFT XY is also able to cope with very small, extremely lightweight, unstable and very differently shaped types of containers which would tip over in other laning systems.

Two servomotors control its segments: one of them moves them in the x direction parallel to the conveyor, namely synchronously to the conveyor speed, so that no friction whatsoever can occur between the segment and the container. The second retracts and extends them in the y direction on up to three lanes as required. The result: an extremely smooth and particularly careful rejection.

Only those segments of the HEUFT XY are activated where a container to be rejected is located in order to ensure that only those containers which should be rejected. The operator himself can control how far it should be rejected. A segment is only extended when rejection is necessary. This movement efficiency minimises wear and tear.



Single-segment rejectors: cost-effective alternatives

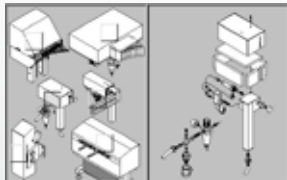
HEUFT has revolutionised the market with its multi-segment rejectors and set new standards. They cannot be beaten as regards their range of functions, flexibility, controllability and ease of maintenance.

Sometimes their possibilities exceed the demands of a particular line. HEUFT has three alternatives available for such

cases: cost-effective single segment rejectors which remove faulty containers from the production flow reliably.



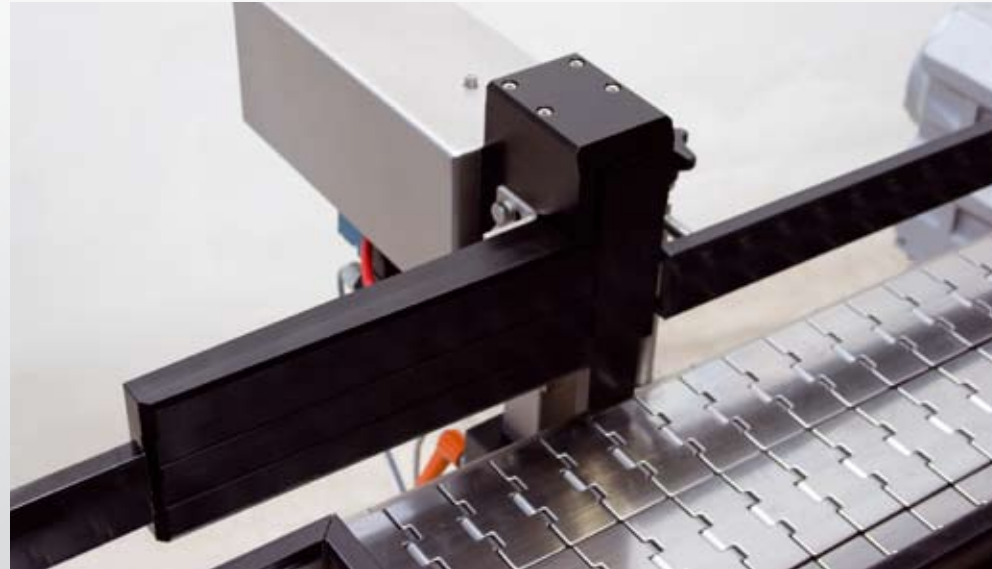
The HEUFT *pusher*: rejecting faulty cans



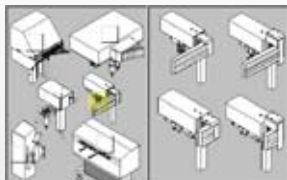
The HEUFT *pusher* transports cans which are damaged or have other faults with a well-measured push where they belong - into a bin.

and a maximal output of 130,000 containers per hour.

The single-segment rejection system even works perfectly in the high-speed section. It works precisely and reliably along production lines with conveyor speeds of up to 160 metres per minute



The HEUFT *mono*: frictional losses excluded



The HEUFT *mono* rejects faulty containers. In this case it is irrelevant whether dealing with a full or an empty container: the single-segment rejector is a cost-effective all-rounder.

It nevertheless takes care of the containers: a special guide rail moves them marginally transversely to the moving direction of the conveyor thus offsetting

their static friction. In this way they are rejected by means of a minimal movement of the segment. Another advantage of this container guidance: the containers to be rejected come really close to the rejection segment the slowly increasing acceleration of which is transmitted completely to the respective container.



The HEUFT *flip*: up and down twice



Round or angular, full or empty containers: the HEUFT *flip* high-speed rejector removes faulty containers particularly smoothly from the production line.

This takes place with half the mechanical strain to the lifting cylinder in comparison to conventional rejection modules due to its cleverly designed joint construction. To be exact its upward and downward movement is converted

into a double upward and downward movement of the rejection segment. Moving downwards causes the upright container to be carefully moved transversely.

HEUFT supplies three versions of the single-segment rejector: with or without vertical adjustment as well as with diagonal adjustment. Its compact and hygienic construction saves room and

keeps the amount of cleaning to the lowest level.



	The HEUFT DELTA-FW	The HEUFT DELTA-K	The HEUFT XY	The HEUFT pusher	The HEUFT mono	The HEUFT flip
Applications / functions	Fault, clearing and sampling rejector for full containers / laning system for full containers	Sorting / fault rejector for empty containers Laning full and empty containers	Laning system for full containers / sorting system for empty containers (PET, HDPE and glass)	Rejection of full faulty containers (cans)	Rejection of faulty bottles, containers and aerosol cans / rejection of faulty empty containers into bins	Rejection of faulty full / empty containers
Very suitable for:	Full containers, rejection into bins and onto collecting tables	Empty containers and lightweight full containers	All sizes of container	Cans	Round and angular full containers	Lightweight, cylindrical containers
Serial rejection?	●	●	●	●	●	●
Upright rejection?	●	●	●	●	●	●
Rejection of lying containers?	●	●	●	●	●	●
Maximum output (containers/min)	2,500	1,200	PET: 600 / glass: 1,000	2,200	1,200	1,000
Compressed air consumption (normal litre per rejection)	0.3 - 0.5	0.16	0.1	0.01	0.01	0.01
Maximum conveyor speed [metre(s)]	3.2	1.5	PET: 1.0 / Glas: 1.5	2.5	1.5	2.0

Key: ● Yes ● Partly ● No

Specifications



Highly efficient and versatile: the rejection and laning systems from HEUFT know how to convince with their remarkable specifications. As the above table proves impressively we have the right solution for every conceivable type of container and application - energy-saving and highly efficient.

The HEUFT team will be pleased to advise you and help you to find exactly the rejection or laning system which optimally fulfils your specific requirements on site.

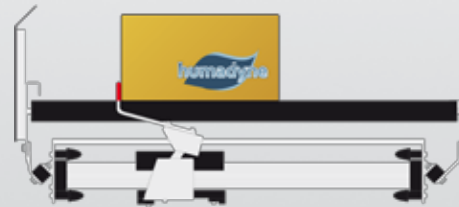


Your cost advantages with HEUFT



The rejection and laning systems from HEUFT, together with the checking and inspection devices of the HEUFT *basic* and the HEUFT *SPECTRUM* series, safeguard product quality and at the same time increase the efficiency of complete lines and

- avoid cost-intensive conveyor stops
- prevent the risk of costly complaints and recall actions
- save personnel costs
- treat all types of containers particularly smoothly and carefully
- keep the number of false rejections at an extremely low level
- adapt flexibly to changes to the conveyor speed
- do not require costly changeover work during product changes
- are extremely hardwearing and minimise maintenance costs due to their compact and open construction

The HEUFT *xtray*The HEUFT *maxi-laner*The HEUFT *maxi-flip*

Other HEUFT products: HEUFT case rejector



Not only individual containers can be rejected or sorted with the HEUFT products. We also supply rejection and laning systems for outer packaging which are optimally co-ordinated for their respective task.

The HEUFT *xtray*

- rejection of trays on roller conveyors
- multi-lane distribution of trays
- little space required

- low wear and tear
- no changeover work required for a brand change

The HEUFT *maxi-laner*

- rejection of faulty cases from the production flow
- little space required due to installation above the conveyor
- mechanical readjustment not required for a product change
- minimum maintenance required

The HEUFT *maxi-flip*

- rejects faulty outer packaging
- ideal for the most varied types of cases
- load-dependent control system
- low wear and tear
- minimum maintenance required



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 *rejctor* container rejection

systems for rejecting, laning and sorting individual containers



FUNCTIONS

Rejection and laning systems from HEUFT

- remove all types of faulty containers from the production flow
- sort out containers with great precision and distribute them onto several lanes
- some reject bottles upright

- some even clear lying containers from the conveyor
- some reject complete container series
- help with sampling [\[more\]](#) *

THE ADVANTAGES

- compact and space-saving systems
- cost-effective and efficient single-segment solutions

- particularly versatile and smooth multi-segment rejectors
- easy and quick integration into existing lines
- future-proof due to continuous adaptation to different conveyor speeds
- rapid processing at conveyor speeds of up to 190 m/min
- partly fully automatic brand change-overs
- components subjected to minimal mechanical stress - low wear and tear
- minimum maintenance required

- very low compressed air consumption per rejection - low operating costs [\[more\]](#) *

* [\[more\]](http://www.heuft.com/rej) detailed information on www.heuft.com/rej

