

CombiChecker XE3 CC H

In-line weighing and metal detection



Increasing Line Efficiency

Single intelligent user interface with 5.7" touch-screen for product settings, statistics and exact control of both the checkweigher and metal detector – fast, simple and reliable.



Extremely reliable

The metal detector is available in a variety of pass widths and heights optimised for the maximum detection sensitivity and protection of your products.



Safety of your products

Two rejection pushers separate and sort the off-weight and metal-contaminated products.



HACCP compliant design

The open design, curved surfaces and refined materials reduce adhesion of dirt and ensure easier cleaning as well as protection of your investment.

Weight monitoring and metal detection – in one process

With the proven XE3 CC H system GARVENS offers a perfect solution for manufacturers who care about their responsibilities especially in the food, pharmaceutical and cosmetics industries. It checks whether products are "on-weight" and free of metal contamination. Central article data editing at the weighing terminal of the checkweigher, quick and easy article changeover. Rejection of off-weight and metal-contaminated products, hygienic and HACCP compliant design.

The combination of a checkweigher from Garvens' proven "X Series" with a metal detector is a powerful system with double function enabling manufacturers to come up to the quality assurance criteria as per FDA, part 11 or IFS.

Technical data

XE3 CC H

– for maximum safety

Whilst the checkweigher measures product weights fast and precisely, rejecting "out of tolerance" products, the metal detector reliably detects and rejects products contaminated by metal which could be a nut or bolt, metal particles, filings, staples, needles or wire pieces. The rejection of "bad" products is ensured by two rejecting devices – e. g. air jets, pushers or swing gates – so that metal-contaminated and off-weight products can be separately rejected. An article changeover can be carried out quickly and easily on the weighing terminal of the checkweigher – a count of metal-contaminated products is displayed and recorded together with weight information on the terminal screen, or on a PC or laptop connected via an Ethernet network. The hygienic design meets strict food processing regulations and allows easy cleaning.

Checkweigher XE3 CC H

- "Weights and Measures" design-approved / MID certifiable
- access protection by password
- classification in up to 3 weight zones plus "metal"
- automatic or manual re-zeroing (setting to null)
- operator prompts (dialogues) in various user-set languages
- reduced build-up of dirt particles due to the tubular construction, sloping surfaces and minimal contact conveyor support clamps
- open construction to facilitate cleaning
- additional cable duct for customer's production line wiring
- reduced number of support legs – with added stability

Options and accessories

- 1 feedback controller for automatic feedback to filling machines
- statistics programs for evaluation
- various monitoring facilities (e. g. detection of product backup)
- PrintStick or printer for the data output
- network interface for SQC system FreeWeigh.NET
- choice of interfaces for weight transmission
- remote display GARVENS FAZ W100
- range of reject devices
- water ingress protection IP65
- further special options and accessories

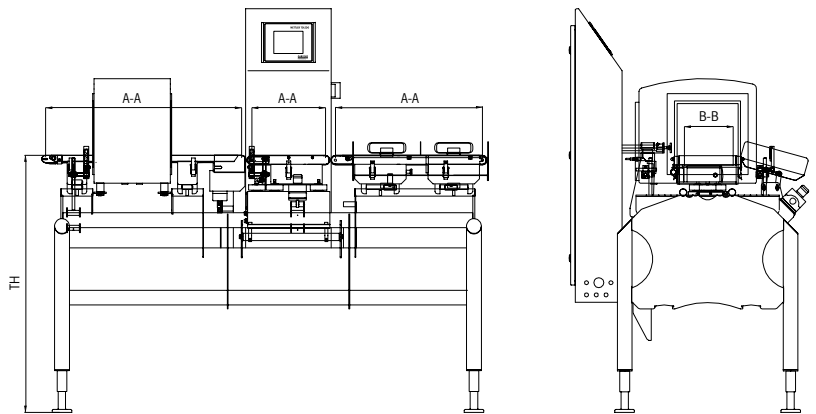
Metal detector

- ICF technology allows short conveyor dimensions
- optimum detection sensitivity for the most different articles
- Auto-Balance-Control for continuous automatic adaptation to ever-changing environmental conditions
- automatic "self-teaching" sensitivity (compensation of the "product effect")
- metal detector with 1 frequency range, or metal detector with 2 fixed frequency ranges for optimum metal detection in "difficult" products. Typical values for dry products in non-aluminium metal-lised packaging material:

Ferrous metal (Fe)	∅ ≥ 0.8 mm
Non-ferrous metal (NFe)	∅ ≥ 1.4 mm
Stainless steel (S/S)	∅ ≥ 2.0 mm

Weighing terminal

- 100 article memory locations
- touch screen colour display, TFT 5.7" (QVGA)
- simple operation, various languages
- indication of all current important weighing and production data as well as configuration screens



Schematic XE3 CC H – typical dimensions in mm (A-A, B-B vary depending on the conveyor size)

Technical details, checkweigher

Roller centres, weighing conveyor (A-A)	250 to 600 mm
Roller centres, outfeed conveyor (A-A)	from 500 mm
Weighing range *	0 to 6000 g
Accuracy ** (3 Sigma)	from ± 0.1 g
Line height TH	765 to 1100 mm (± 30 mm)
Standard rejecting device	2 pushers
Electrical ratings	115/ 230 V (A.C.), single-phase, 50 / 60 Hz, 1 kVA

* depending on the design and dimensions of the weighing belt used

** depending on the throughput, weight, dimensions and transport behaviour of the product being weighed

Metal detector with 1 fixed frequency range

25/100/300 kHz	B	C	D	E	F	G	H	I
Pass width of metal detector (mm)	250	250	250	250	350	350	350	350
Pass height of metal detector (mm)	100	150	200	250	125	150	200	250
Usable height (mm)	60	110	160	210	85	110	160	210
Roller centres, infeed conveyor (A-A) (mm)	600	600	600	600	600	600	600	600
Belt width (B-B) (mm)	200	200	200	200	300	300	300	300

Metal detector with 2 fixed frequency ranges

25+100/100+300/25+300 kHz	B	C	D	E	F	G	H	I
Pass width of metal detector (mm)	250	250	250	250	350	350	350	350
Pass height of metal detector (mm)	100	150	200	250	125	150	200	250
Usable height (mm)	60	110	160	210	85	110	160	210
Roller centres, infeed conveyor (A-A) (mm)	600	600	600	600	600	600	600	600
Belt width (B-B) (mm)	200	200	200	200	300	300	300	300

Alternative models of metal detector with 2 fixed frequency ranges, HACCP compliant design

25+100/100+300/25+300 kHz	A	B	C	D	E	F	G	H	I	J	K	L
Pass width of metal detector (mm)	200	250	250	250	250	350	350	350	350	450	450	450
Pass height of metal detector (mm)	350	100	150	200	250	125	150	200	250	150	200	250
Usable height (mm)	310	60	110	160	210	85	110	160	210	90	160	190
Roller centres, infeed conveyor (A-A) (mm)***	800	800	800	800	800	800	800	800	800	800	800	800
Belt width (mm)	150	200	200	200	200	300	300	300	300	400	400	400

*** shorter distance between axles (infeed conveyor) on enquiry only

nefton
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