Checkweighers

CombiChecker XE3 CC
A compact system

Space saving design
Compact design with optimised transition areas ensuring easy and valuable space saving integration into the production line.

Increased line efficiency
Single intelligent user interface 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
The rejection pushers separate and sort the off-weight and metal-contaminated products.

In-line weighing and metal detection – in one process

With the proven "checkweigher plus metal detector" CombiChecker 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.

The combination of a XE3 CC 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. Hygienic and compact design.
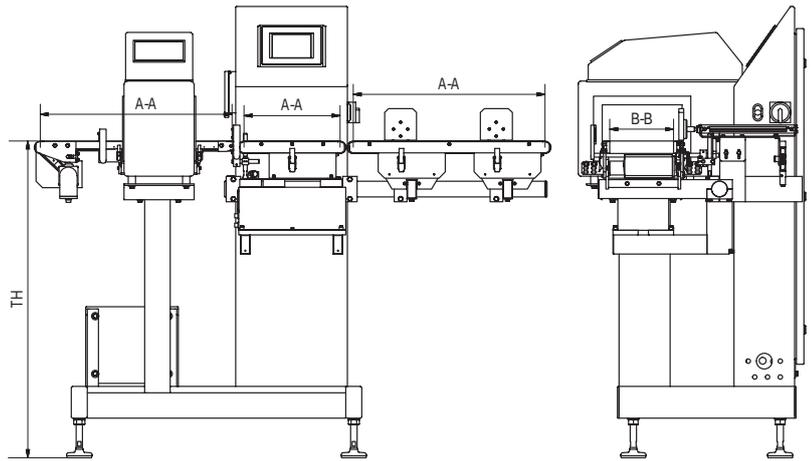
METTLER TOLEDO

Technical data
CombiChecker XE3 CC
– Weight monitoring and metal detection

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 compact design ensures that the XE3 CC integrates into most production lines. The hygienic design meets strict food processing regulations and allows easy cleaning.

Dimension diagram XE3 CC – typical dimensions in mm – other dimensions possible depending on order specifications

Checkweigher XE3 CC
• "Weights and Measures" design-approved
  in certain countries/MID certifiable
• access protection by password
• classification in up to 3 weight zones plus "metal"
• automatic or manuel re-zeroing (setting to null)
• operator prompts (dialogues) in various user-set languages

Options and accessories
• feedback control (1 controller) for optimising fill processes
• E. C. approved statistics programs
• PrintStick or printer for the data output
• network interface for FreeWeigh.NET SQC system
• various monitoring facilities (e. g. detection of product backup)
• 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")
• typical values for dry products in non-aluminium metallised
  packaging material:
  Ferrous metal (Fe) $\varnothing \geq 0.8$ mm
  Non-ferrous metal (NFe) $\varnothing \geq 1.4$ mm
  Stainless steel (S/S) $\varnothing \geq 2.0$ mm

Weighing terminal
• 100 product memories
• simple operation, various languages
• bright, high-contrast colour touchscreen display, 5.7" (QVGA)
• comprehensive display of current weight data and production
  screens as well as configuration screens
• Windows-based control, XP embedded

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**	from ± 0.1 g
Line height (TH)	700 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 design and dimensions of the weighing belt used
** depending on throughput, weight, dimensions and transport behaviour of the products

Metal detector with 1 fixed frequency range

25/100/300 kHz	B	C	D	E	F	G	H	I
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
Width of conveyors (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
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
Width of conveyors (B-B) (mm)	200	200	200	200	300	300	300	300

Standard surface finish of the detector housing: painted. Optional "stainless steel" surface available.
For a water protected CombiChecker ("WP" version) the detector is available only with "stainless steel" surface.