

**Technical specs:1 GARVENS X•S3-SHARK CombiChecker**  
 in a hygiene IP65 stainless steel design (HACCP-Compliant)  
 for the weighing of **packs Like ready meals & sausages trays**



**Overview of the technical data**

**Your product data**

No	Type (description/name)	dimensions L x W x H resp. [mm]	dimensions in transport direction [mm]	weight [g]	throughput [pcs/min]
1	Max dimension for pack	180 x 180 x 50	195	3000	50-100*

given product centre spacing on site at present (measured from product centre to product centre)	<b>?? mm</b>	given belt speed on site at present	<b>?? m/min</b>
required product spacing between products (measured from product centre to product centre))	<b>300 mm</b>	required belt speed	15 m/min

Product infeed: with regular spacing. Resulting required belt speed: 15 m/min

\* Theoretical maximum throughput speed out of the Multivac = 50 packs per minute in total, actual throughput is 44 packs per minute.

**Please send us at least 5-10 original product samples for our final inspection department to ensure the confirmed parameters and that the checkweigher can be optimally adapted to your products.**

**Technical specification of the weigher**

maximum product load	1,000 g
maximum weigher load	6,000 g
resolution	d = 1.0 g
throughput, up to	50 to 100 weighings per minute
weighing range	100 to 1,200 g
loadhcell	electro-magnetic force compensation principle, digital, maintenance free, temperature stable

**Technical specification of the GARVENS / SAFELINE metal detector**

Pass width of aperture	250 mm
Pass height of aperture	100 mm
Usable height	60 mm

Accuracy Average values for dry products in non-aluminium-vapourised packaging

Ø >1.5 mm\* Ferrous Metal (Fe)

Ø >2.0 mm\* Non-ferrous metal (Nfe)

Ø >**2.3 to 3.00 mm**\* Stainless steel (S/S) depending on product.

\* Accuracies are based on similar products, but may vary depending on your specific product characteristics, and installation environment. It is possible that better accuracies may be achieved than the one's stated above, but this can only be confirmed after tests with original samples.

**Please send us original samples of your product so that we may test these and give you a definitive accuracy value for your specific products.**

## Features of Metal Detector

Operating elements	no display, no keypad – simple operation via weighing terminal on the checkweigher.
Material/housing design	Rounded, painted aluminium HACCP compliant surface
Detection coil	with integrated electronics in modular technique, micro-processor controlled.
Metal indication	optical by means of a red bars in the display of the weigher or via optional outputs.
Operating electronics	automatic setting of the sensitivity (Auto-Setup)
Auto-Balance-Control	for a continuous automatic adaptation of the metal detection system to changes in the environment and in the detection coil. No manual re-adjustments required.

## Mechanical specifications

Metal detector infeed	<b>800 mm / 200 mm</b> (distance between axles/belt width) infeed conveyor integrally mounted on the checkweigher, idle rollers made of stainless steel, including tool-less quick-release tensioning device.
weighing conveyor	<b>250 mm / 200 mm</b> (distance between axles/belt width) infeed conveyor integrally mounted on the checkweigher, conveyor body and idle rollers made of stainless steel, including tool-less quick-release tensioning device.
outfeed of products	<b>600 mm / 200 mm</b> (distance between axles/belt width) infeed conveyor integrally mounted on the checkweigher, conveyor body and idle rollers made of stainless steel, including tool-less quick-release tensioning device.
Installation length	<b>+/- 1,800 mm</b>

## Mechanical specifications

motors	electronically commuted direct current motors; servo motors (D.C.) with integrated control circuitry; speed continuously variable at the touch of a key; motors made of hard-coated aluminium
rejecting device	sorting of <u>metal contaminated</u> products by means of a <b>pusher</b> mounted on the outfeed conveyor (rejection towards the rear - non-operator side)-operator side). Sorting of <u>+/+ &amp; -/-</u> products by means of a <b>pusher</b> mounted on the outfeed conveyor (rejection towards the front - operator side).
compressed air	4-8 bar, air consumption approx. 50 l/hour
foot screws	line height standard: from 750 - 1100 mm; <b>supplied at 885 mm</b>
transport direction	made of stainless steel, height adjustable within the normal height range above (+/- 50 mm)
ambient conditions	<b>from Right to Left</b>
column	to ensure maximum accuracy, the location where the checkweigher is to be installed must be free of vibrations and air draft as far as possible (switch cabinet) giving easy access to electric and electronic parts and the drive control

- framework (baseframe) - self supporting housing made of stainless steel
- patented frame endplate design (to facilitate the incorporation of additional equipment)
  - reduced build-up of dirt particles due to the tubular construction and sloping surfaces
  - min. contact surfaces of supports and clamps due to new HACCP design
  - hole free framework
  - open construction to facilitate cleaning
  - additional cable duct for customer's production line wiring
  - reduced number of support legs with added stability
  - for special designs see "options and prices"
- ingress protection Standard: IP 54 – Supplied as IP65V2A - See Prices & Options.

### Electrical specifications weigher

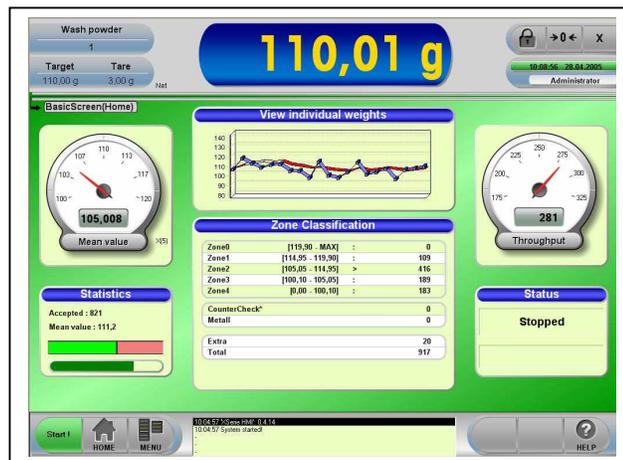
- electrical installations corresponding to the VDE guidelines 0100 and 0113
- power supply 100 - 240 V, single-phase, N, PE, 50/60 Hz (versions for special voltages on enquiry)
- wattage 500 VA
- temperature range 0 - 40 ° C (special versions for other temperature ranges on enquiry)
- note The power supply of the checkweigher must be interference-free (EMC, HF) to ensure trouble-free operation.
- signals potential-free outputs (designed as "make contact"):
- weigher is ready
  - conveyors are running

### Weighing terminal

- terminal housing stainless steel; can be fitted for optimum angle of vision

### Screen weigher

- display bright, high-contrast colour touch-screen LC display, resistive touch system, can also be operated with suitable pens or gloves, size 15", resolution 1024 x 768 pixels (XVGA), 24 bit colour depth (see photo below for example)
- indication - current article; nominal weight and tare
- current operator, time and date
- weight large gross weight indication, or large net weight indication once the mean tare of the article has been entered
- action section for log-in and re-zeroing



**METTLER TOLEDO**

### Menu section weigher

operator guidance	- intuitive operation concept with on-screen help functions
softkey	for motor start/stop
HOME key	for quick jump back to the basic screen
MENU key	for opening the list of screens
HELP key	for context-sensitive help
FORWARD/ BACKWARD key	for moving from one screen to another
system message	history of last system message with date/time

### Basic screen weigher

mean value / throughput	analogue representation of the gliding mean value (of a user-selectable type of mean value) and the throughput
counter levels	classification: counter levels of each weight zone and classification arrow showing the current weighing
info line	system status and system message, error messages (full text)
statistics	basic information
graphic indication	of the last 20 weight values as a curve

### Other screens weigher

indication	of total of more than 60 other screens, availability depending on access permit
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### General weigher

article memory locations	<b>200</b> (upgradeable to 500)
classification	in 3 weight zones
speed	continuously variable at the touch of a key (“+” or “-“) derived from set throughput (pcs./minute)

### Further functions weigher

article selection	“finger touch” call-up of an article memory location by selecting the article name
re-zero (setting to null)	automatically or manually
self-diagnostics	system diagnostics with messages
product monitoring	automatic package length detection
service friendly	new software versions and configuration data can simply be transmitted into the terminal; no need to open it
program language	English (selectable)
operating instructions	1 manual, English & 1 CD-Rom (including: wiring diagrams, CAD-Layouts, parts lists & users manuals) per machine

**The customer (buyer), at his expenses, shall be solely responsible for waste disposal/ recycling of the goods delivered by us, as per the applicable provisions of §10 article 2 of the Electrical and Electronic Equipment Act of Germany or corresponding local law in the sense of the Directive 2003/108/EC Of The European Parliament And Of The Council.**

## Prices and Options

No	Qty.	Designation	Unit Price	Total Price
1.	1 x	<b>Checkweigher GARVENS X•S3-SHARK CombiChecker IP65V2A</b>		
		Standard design according to the a.m. specification. Including 1 pusher as standard. This option needs to be fitted to the machine, not so much to keep the water out, but more importantly, to keep the cement dust out. Standard checkweigher in "IP 65 design" (DIN IEC 34).		
2.	1 x	<b>Product length detection</b>		
		This option gives you the added functionality, that the weigher will check to see whether the products have actually been separated / cut free from each other correctly.		
3.	1 x	<b>Cover over weighing &amp; outfeed conveyors, Special design</b>		
		Acrylic cover for the checkweigher weighing and outfeed belts. For optimizing the weighing process by reducing the influence of air draught; protection against dirt and dust. In addition to this, the cover will hinder access to possible pinch points. To ensure easy access to the weighing & outfeed belts, the cover will have a large inspection hatch cut into the top of it. <u>Incl. safety switches.</u>		
4.	1 x	<b>Catch-bin with key lock</b>		
		For rejected metal contaminated products. Made of Makrolon. Height 650 mm, depth 255 mm.		
5.	1 x	<b>Rejection countercheck</b>	each	
		A light barrier placed across the outfeed belt of the machine to monitor whether the rejection of products to be rejected really took place. If not, a message is displayed in the info section of the screen; optionally the conveyor shutdown and / or activation of an output can be parameterised.		
6.	1 x	<b>Wooden Crating</b>	each	
		Packaging costs for the CombiChecker		