



Accurately Weighing Africa



# IN-LINE CHECK WEIGHING

DELIVERING ACCURATE PACKAGE  
WEIGHT VALIDATION



## **SASCO** WEIGHING SYSTEMS

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SASCO'S IN-LINE CHECK WEIGHERS offer an automated or manual solution for checking the weight of packaged commodities. These scales are normally found at the off-going end of a production process and is used to ensure that the weight of a pack of the commodity is within specified limits. Any packs that are outside the tolerance are taken out of line automatically.

A checkweigher can weigh in excess of 500 items per minute (depending on carton size and accuracy requirements).

Checkweighers can be used with metal detectors and X-ray machines to enable other attributes of the pack to be checked and acted upon accordingly.

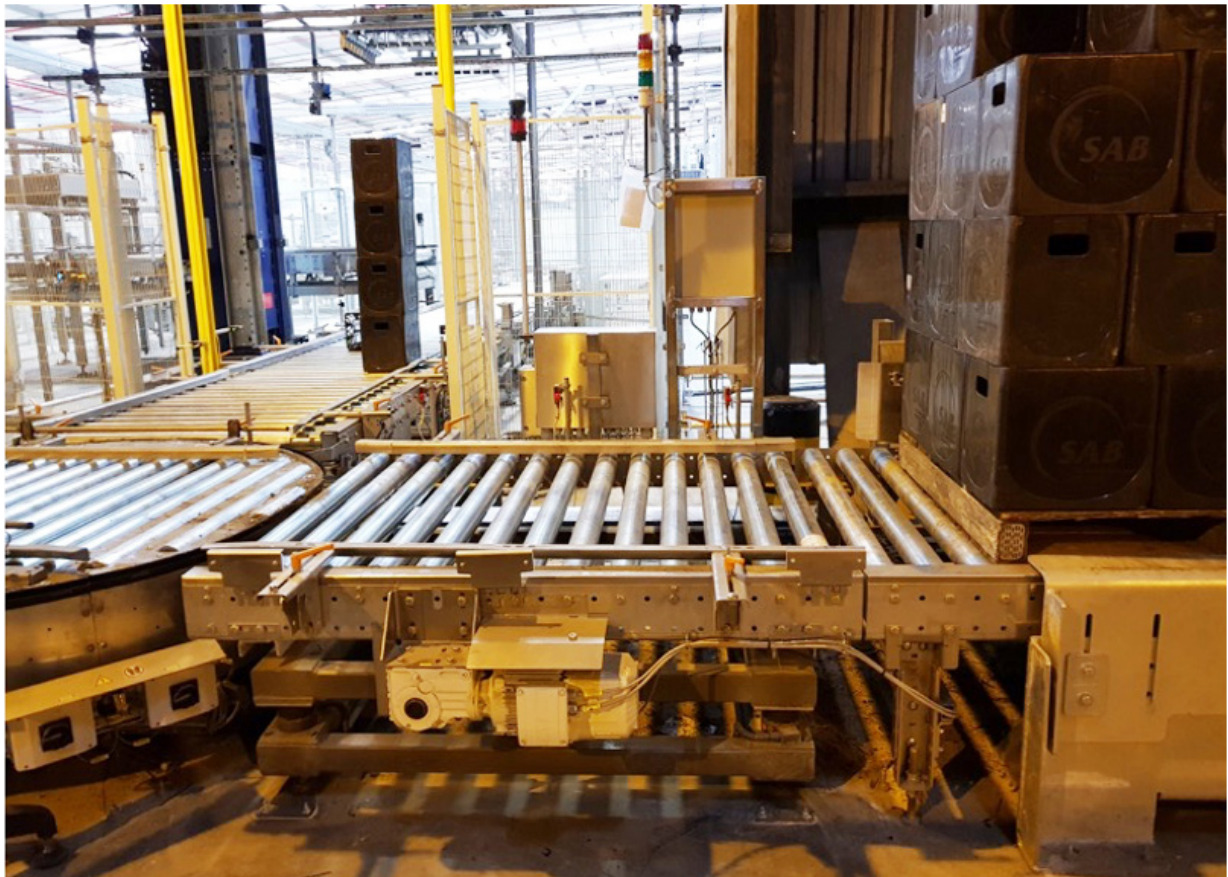
An automatic checkweigher incorporates a series of conveyor belts. These checkweighers are known also as belt weighers, in-motion scales, conveyor scales, dynamic scales, and in-line scales. In filler applications, they are known as check scales.

Typically, there are three belts or chain beds:

- **An infeed belt** that may change the speed of the package and to bring it up or down to a speed required for weighing. The infeed is also sometimes used as an indexer, which sets the gap between products to an optimal distance for weighing. It sometimes has special belts or chains to position the product for weighing.
- **A weigh belt.** This is typically mounted on a weight transducer which can typically be a strain-gauge load cell or a servo-balance (also known as a force-balance), or sometimes known as a split-beam. Some older machines may pause the weigh bed belt before taking the weight measurement. This may limit line speed and throughput.
- **A reject belt** that provides a method of removing an out-of-tolerance package from the conveyor line. The reject can vary by application. Some require an air-amplifier to blow small products off the belt, but heavier applications require a linear or radial actuator. Some fragile products are rejected by “dropping” the bed so that the product can slide gently into a bin or other conveyor.

It is usual for a built-in computer to take many weight readings from the transducer over the time that the package is on the weigh bed to ensure an accurate weight reading.

Sasco offers a broad range of rugged and accurate In-Line Check Weighers all of which can be tailor made to meet customers' specific requirements, with three configurations being central to Sasco's product offering, namely the CW100, CW200 & CW300 In-Line Check Weighing Systems.

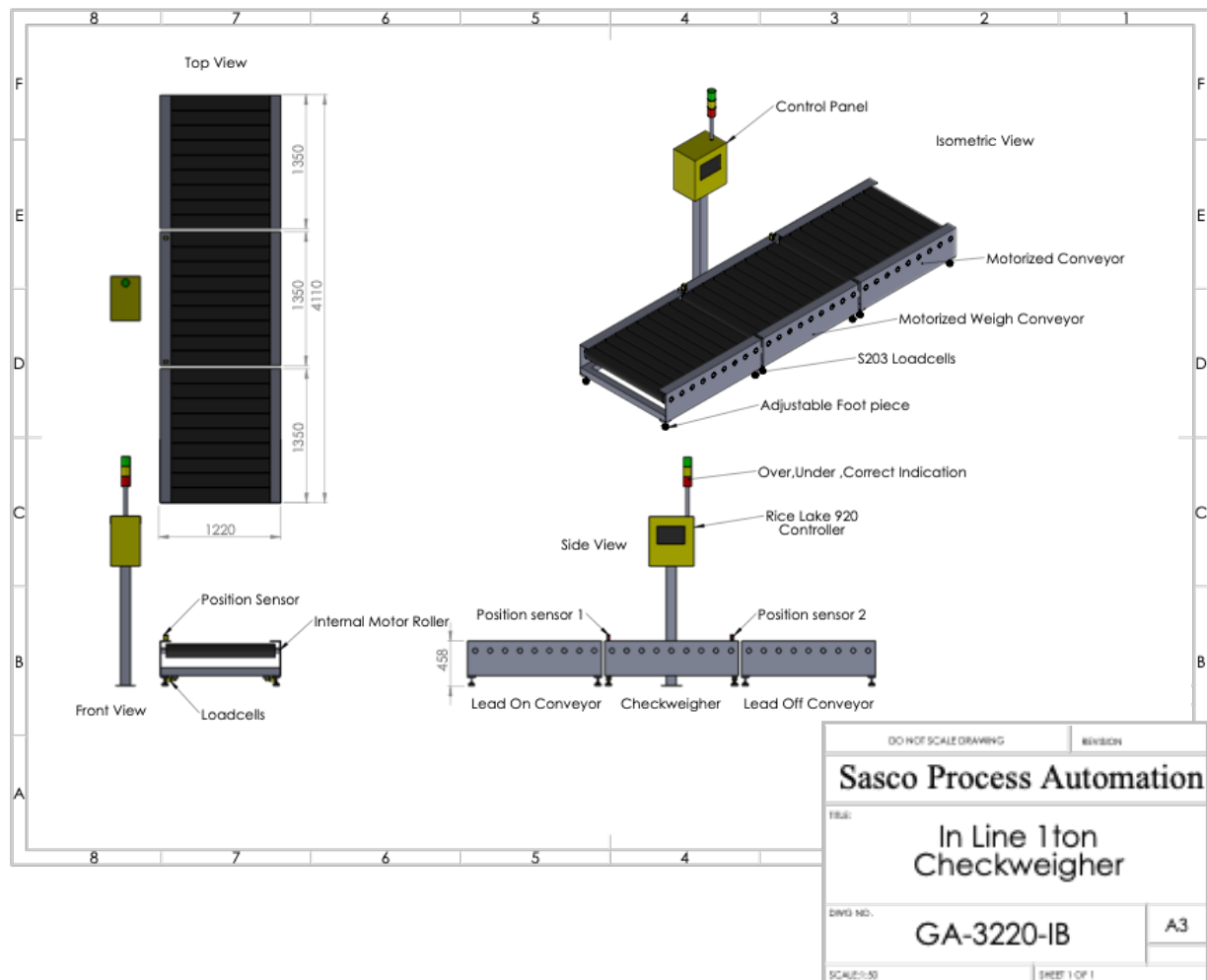


*In-line Check Weigher*

# Product Overview




SASCO IN-LINE CHECKWEIGHERS have the following key component options, which are reflected in our range of standard check weighing product range and bespoke product options.

## In-line Checkweigher Mechanical Overview



# Standard Product Range

The Sasco In-Line Check Weigher range comprises both bespoke products and the following standard base products:

PRODUCT NUMBER	CW 100	CW 200	CW300
Controller	 <b>PW-100</b>	 <b>IT1</b>	 <b>L337</b>
Applications	Static or in motion check weighing applications	Static or in motion check weighing with an automated rejector and position sensor	Static or in motion and fully automated in line check weighing system with an automated rejector and conveyor control
SPECIFICATIONS			
Conveyor Checking	Single	Triple	Triple
Load Cells	4	4	4
Display Warnings	Yes	Yes	Yes
Capacity	1-10,00kg	1-10,00kg	1-10,00kg
Totalizer	Standard totalizer, total weight, number of weighings per day	Standard totalizer, total weight, number of weighings per day	Standard totalizer, total weight, number of weighings per day
Rejection Control	Manual	Automatic	Automatic
Position Sensors	No	Yes	Yes
Load Cell Assemblies	None dampened	Dampened	Dampened
Conveyor Control	None	Basic	Advanced
Reporting	Basic	Basic	Advanced



## Controller Features Comparison

	PW100 Controller	IT 1 Controller	L337 Controller
Display	6-digit 7-segment LED + 8 LEDs + LCD	11cm/4.3" TFT color screen	12.5cm/5.7" TFT color screen
Display Type	7-segment + mono-colour Graphic LCD	Colour Graphic LCD	Colour Graphic LCD
Mounting	Wall	Panel, Wall, Desk	Panel, Wall, Desk
Key Pads	20-key Alphanumeric membrane keyboard	20-key Alphanumeric membrane keyboard	30-key Alphanumeric keypad + Ability to plug into a key pad separate from the controller
Built in Web Server	No	Optional	Yes
IP Rating	IP65	IP69K	IP69K
Digital Filter	Moving average digital filter with programmable input step detection	Not specified	Motion filter and digital
Input Power	90-260 VAC or 10-30 VDC	110-240 VAC or 12-30 VDC	110-240 VAC or 12-30 VDC
Load Cells Operated	8 Loadcells	8 Loadcells	16 load cells
Memory	SD memory stick	Optional to record 1,000,000 weighing results	To record 120,000 weighing records
Configurable Set Points	Depend on the application	2	99
I/O Digital Channels	6 in & 6 out	4 (2 in, 2 out / 1 in, 3 out)	8 (4 in, 4 out) internal / up to 64 DIO external
Analog In/Out	One analog output as standard	None	Optional analog inputs and outputs
Standard Comms	RS232	RS232	USB, RS232, Ethernet
Communication Options	Optional RS232, RS485, USB, Ethernet, RF	Selectable optional USB, Ethernet, RS232 or RS485	RS232, RS485, RS422, RS4220, PROFIBUS, Modbus and Ethernet/WiFi
Ticket Formats	Fixed	Standard formats with limited used defined fields	Standard formats with limited used defined fields
Approvals	No Approvals	EN 45501 OIML R 76-1 EN 61000-6-2 EN 61000-6-3 NAMUR NE21 EN 62368-1 WELMEC 8.8	EN 45501 OIML R 76-1 EN 61000-6-2 EN 61000-6-3 NAMUR NE21 EN 62368-1 OIML R 51 OIML R 61 OIML107
Applications	Loadcell transmitter Loss-in-weight controller Through-put weigher Bag filling Batch weigher Dynamometer	Floor and bench scales Counting scales Check weighing Filling Mobile scales	Truck scales with axle-weighing Loss-in-weight controller Through-put weigher Bag filling Big-bag filling Batch weigher Belt weigher Counting scales Check weighing Filling systems for solid and liquid material Mobile scales

# Application Example

## INLINE CHECKWEIGHER

A major South African citrus processing plant required a system of weighing bar coded crates of citrus arriving at the plant so as to ensure that the correct weights of daily produce were accurately recorded against the appropriate grower, with under weight batches being rejected.

Sasco's solution was to supply an inline check weigher linked to the customers ERP system via a wireless connection. The pack house mostly packs fresh produce for numerous local farmers, all produce being exported.



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