



Accurately Weighing Africa



ULTRA HEAVY-DUTY AXLE WEIGHING WEIGHBRIDGE

(WB-HD)

Ultra-Strong Weighbridge Innovation

WBHD-24-01

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SASCO WEIGHING SYSTEMS

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WB 80T HEAVY DUTY (WB-HD)

Discover the unparalleled range of truck weighing solutions offered by Sasco, from multi-deck to single deck and weigh-in-motion products.

When choosing the optimal truck weighing solution, factors such as budget considerations, the need for axle and total weights, available space, truck length, daily weight volume, required maximum axle loadings, deck strength, level of automation, and the possibility of unmanned weighbridges all come into play.

Sasco's extensive product line up ensures that the perfect solution, which are all powered by European manufactured weighing indicators, align seamlessly with specific requirements. In terms of single deck weighbridge solutions Sasco has six options:

	SAS-Bridge WB-SB	WB-LP	WB-AW	WB-PT	WB-AC	WB-HD
Total Accuracy	±99.95%	±99.95%	±99.98%	±99.98%	±99.98%	±99.98%
Deck Type	WB80 LP	WB80 LP	WB80 T	SPT Portable	Concrete	WB120 T
Lengths	6, 12, 18, 24m	6, 12, 18, 24, 30m	6, 12, 18, 24m	12, 18, 21m	6, 12, 18, 24m	6, 12, 18, 24m
Width	3m	3m	3m	3m	3m	3m
Deck Construction	Steel	Steel	Steel	Steel	Concrete	Steel
Deck Plate Thickness	8mm	8mm	10mm	10mm	n/a	12mm
Total Capacity	80T	80T	80T	50T, 60T, 80T	80T	120T
Axle Loadings	9T	9T	18T	10T	25T	25T
Colour	Yellow	Yellow	Lego Blue	Red	n/a	Green
Volume Daily Weighing's	<=60 p.d.	<=60 p.d.	<=120 p.d.	<=120 p.d.	No limit	No limit
Indicator	DD700	DD1015	DD1015	DD1015	DD1015	DD1015
Load Cells	Sasco S16	Sasco S16	CPD or S500	CPD	CPD or S500	CPD
System	Analogue	Digitised	Digital	Digital	Digital	Digital
Software	SasPro	ProWeigh	ProWeigh	ProWeigh	ProWeigh	ProWeigh
Axle Weighing Functionality	No	Yes	Yes	No	Yes	Yes
Lightning & Surge Protection	No	Yes	Yes	No	Yes	Yes
Installation	Pit or above ground	Pit or above ground	Pit or above ground	Portable	Pit	Pit or above ground

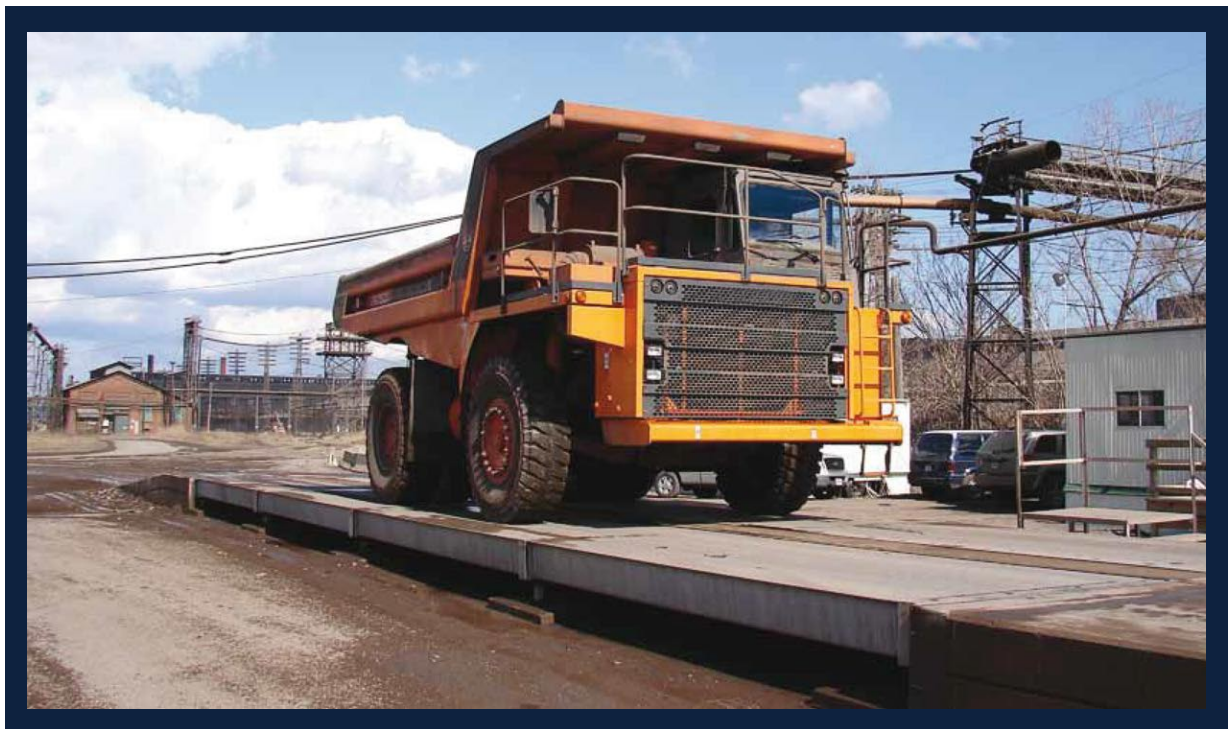
In addition to these six single deck weighbridges Sasco has a range of Multideck Weighbridges and Weigh-in-Motion solutions.

WB-HD Product Overview

The WB-HD model, within the Sasco range, stands out as an enhanced counterpart to the WB-AW, offering all of its functionalities and features, including comprehensive total weight and axle weight measurement capabilities.

Distinguishing itself from the WB-AW, the WB-HD boosts its total capacity from 80 tons to 120 tons, upgrades the deck plate thickness from 10mm to 12mm, and increases maximum axle load capacity from 18 tons to 25 tons. Moreover, it significantly enhances operational efficiency by supporting an unlimited number of daily weighing's at these elevated loading levels, a substantial improvement from the WB-AW's limit of 120 weighing's per day.

Designed to endure the rigors of high-volume, heavy truck weighing in particularly demanding environments, the WB-HD incorporates state-of-the-art Bilanciai instrumentation, making it an exceptionally robust and reliable weighbridge solution.



Sasco DD1015 Indicator



The image shows the Sasco DD1015 Indicator, a rugged industrial device. It features a central color LCD screen displaying the Sasco Africa logo and the text "Accurately Weighing Africa" and "Designed to be Connected". The device is housed in a grey, protective enclosure with a carrying handle at the bottom. The model number "DD1015" is visible on the left side of the front panel.

- Diagnostic system.
- Automation device management.
- Dual core 1GHZ
- 512 Mbyte RAM and 1 GByte Flash
- Ethernet 10/100MBps
- 4 USB Ports
- 3 x RS232/RS422
- 2 x RS232/RS422 Optio Isolated
- Connect to 12 analogue load cells
- Connect to 16 digital load cells
- OIML and NTEP Approved

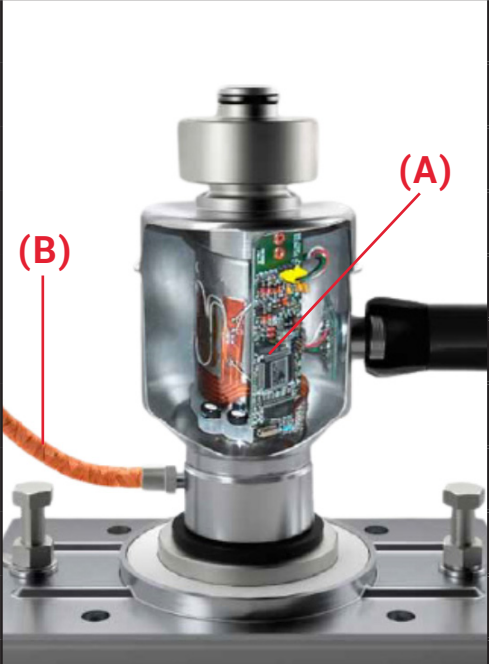
The DD1015 weighing indicator, designed and manufactured in Europe, boasts not only OIML approval but also multiple additional European certifications.

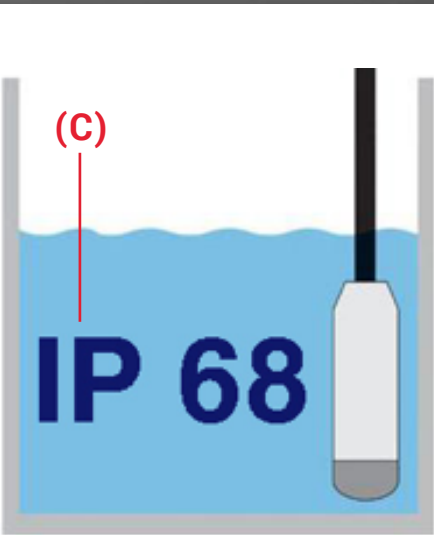
Setting it apart from other solutions on the market and proving pivotal for weighing applications in Africa, this indicator is equipped with comprehensive temperature compensation, ensuring the system maintains its accuracy even amidst significant temperature fluctuations.

Sasco CPD Load Cells

The Bilanciai CPD load cell has earned a reputation as one of the premier weighbridge load cells globally, owing to its unique and unparalleled features. Notably, it boasts the capability to be submerged, withstand side loads and inclinations without sustaining damage, and incorporates rodent protection cabling.

Crafted with A17-4PH Stainless Steel casing, it ensures durability and resilience. Additionally, the load cell is equipped with built-in lightning protection, continuous diagnostics, and the innovative ability to have calibration settings reverse-calibrated, minimizing downtime. These distinctive attributes collectively make the Bilanciai CPD load cell exceptionally reliable, robust, and precise, setting a standard for excellence in load cell technology.

The CPD load cells are characterized by the following specifications:		
	Accuracy Class	C3 (OIML R60)
	Rated Capacity	20t, 35t, 50t
	OIML R60 intervals	Max 6000
	Safe Overload	150% F.S.
	Safe Side Load	10%
	Ultimate Overload	200% F.S.
	Op. Temperature	-10~40 °C
	Ability To Incline	Yes to 5 degrees
	Transmission Protocol	RS485
	Supply Voltage	7~15 VDC
	Housing Material	A17-4PH Stainless Steel
	Rating	IP 68/ 69K
	Type	Digital
Continuous Diagnostics	(A) Yes	
In built lightning protection	(A) Yes	
Radio Interference Protection	(A) Yes	
Reverse calibration	(A) Yes	
Rodent protection cables	(B) Yes	
Submersible	(C) Yes	



Sasco Proweigh Software

Launched in September 2009, ProWeigh+ V1.0 aimed to provide a cost-effective off-the-shelf software solution, utilizing a modular building block approach for seamless functionality expansion. Since its inception, ProWeigh+ has undergone substantial developments, enhancing its functionality while maintaining its inherent simplicity.

The latest iteration, ProWeigh V5.0 stands as a testament to this evolution, meeting the diverse needs of customers and even surprising those initially considering bespoke solutions with its flexibility and functionality.


Developed incrementally over a decade from the original platform, ProWeigh V5.0 is a proven and stable software solution. This is underscored by the widespread adoption of licenses across key sectors of the African economy, reflecting its reliability and performance.

A practical weighing solution is one that weighbridge operators find easy to use, and ProWeigh+ epitomizes this concept.

- Wide range of definable fields.
- Purchasing and Product module.
- Fleet database module.
- Ticket emailing module.
- Axle weighing reporting module.
- Country specific overloading setup.
- SOLAS container module.
- Definable overloading % tolerances.
- Specific definable User rights.
- Full audit trail.
- Microsoft Sequel database.
- Online Accredited Operator Training.
- Option of ERP or Cloud interfacing.
- Option of adding automation hardware management module.
- Developed and supported by Sasco.

With over 1000 installations across multiple African countries, Sasco ProWeigh+ has established itself as arguably Africa's most popular weighing software today. Its widespread use across diverse industries underscores its reputation for reliability, user-friendly operation, and adaptability to evolving weighing needs.

The Weighing Ticket

THIS DOCUMENTATION IS COMPLIANT WITH THE NATIONAL ROAD TRAFFIC AMENDMENT ACT, 64 OF 2008									
				WEIGHBRIDGE TICKET SLIP					
				Horse Registration	VEHICLE				
				Weighbridge Name	Road train weighbridge2				
				Company Name	Assmang Blackrock Mine Operation				
				Site Name	****				
Product				*** COPY ***					
TICKET NUMBER	SMS00000019		TICKET DATE	2022/09/02 13:47					
VEHICLE DETAILS									
Registration Number	VEHICLE	TRAILER123	TRAILER456						
Type	****	****	****						
Operator	Private	****	****						
Contact Person	****	****	****						
Insurance Provider	****	****	****						
Cover Type	****	****	****						
Policy Number	****	****	****						
TRADE WEIGHING DETAILS									
<u>First Weigh Details</u>		<u>Second Weigh Details</u>		<u>Weigh Calculations</u>					
Weight (kg)	21,000	Weight (kg)	56,000	NETT Weight (kg)	35,000				
Date Time	2022/09/02 13:43	Date Time	2022/09/02 13:46	Product NETT (kg)	35,000				
Operator	sa	Operator	sa	Total Difference	35,000				
				Total Cost	0.00				
LOADING DETAILS									
Axle Groups	Actual (kg)	Permissible (kg)	Difference (kg)						
Group 1	7,600	7,700	-100						
Group 2	16,000	18,000	-2,000						
Group 3	16,000	18,000	-2,000						
Group 4	16,400	18,000	-1,600						
TOTALS	56,000	61,700	-5,700	Speed	0.00	km/h			
CONSIGNEE DETAILS									
Consignee Code				Address					
Consignee Name									
Document Number	ROA0000000002								
Document Type	Sales		Contact Name	****					
Document Weight	0		Contact Number	****					
CONSIGNOR DETAILS									
Consignor Name	Assmang Blackrock Mine Operation		Contact Name	****					
Address	****		Contact Number	****					

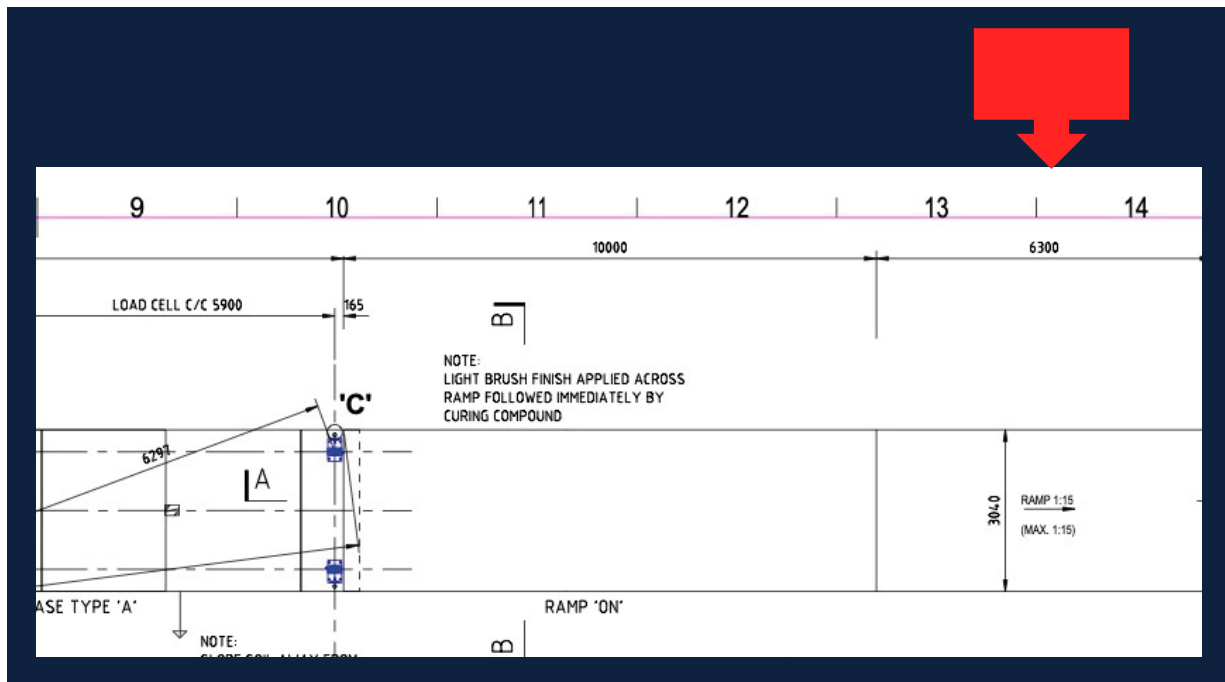
The system requirements for ProWeigh+ are:

- CPU : Intel Core i5 (8th generation or newer)
- RAM : 8GB or Higher
- Storage: 500GB or more
- Network: Ethernet and WiFi
- Operating System: Windows 10 or 11
- Printer: A4 printer

Civil Works

If installed above ground a 10m level approach must be constructed as indicated below for the weighbridge to generate accurate axle weights.

TOP DOWN - CIVIL DRAWING ON THE LEVEL APPROACH RAMP FOR ABOVE GROUND WEIGHBRIDGES



CROSS SECTION - CIVIL DRAWING ON THE LEVEL APPROACH RAMP FOR ABOVE GROUND WEIGHBRIDGES



Application Example

Company H is a coal mine. It operates Cat 740 articulated dump trucks to carry coal between the mine and a coal fired power station. No trucks go on public roads. The truck axle loadings are 20 tons and the total truck loadings are up to 70 tons. Truck wheel spans are 3.5m.

The coal is sold to the power station based on weight and therefore the weighbridge needs to be trade approved. Both the mine and power station need real time data on coal movements.

The WB-HD combined with ProWeigh+ will be the optimal solution and would be configured as follows:

- One WB-HD weighbridges, with CPD load cells will be installed flush with the ground such that trucks can approach it from both directions, one direction in bound and the other direction out bound.
- A filler module of 1.5m will be installed to give the weighbridge a width of 4.5m
- RFID scanners mounted at both ends together with robots and kiosk printers
- mounted at driver height.
- ProWeigh+ will be loaded on the PC's in the site office.
- The entire fleet information will be loaded on the ProWeigh+ Fleet Master database. Tare weighing functionality will be activated allowing for single weighing.
- The ERP interfacing functionality of ProWeigh+ will be activated and the weighbridge PC connected to the customer network.



Technical Specifications

	CPD Load Cells
Total Accuracy	±99
Installation	Above ground or pit
Standard Deck Width	3m (without span filler module)
Wider Deck Option	4.5m (including span filler module of 1.5m)
Deck Length	12 - 36m
Module Lengths	6m modules
Indicator	One - DD1010
Indicator IP Rating	IP 48
Load Cells	Ten - CPD
Load Cell IP Rating	IP68
Dlink Required	No
Maximum Total Weigh	120 tons
Maximum Axle Weigh 200 W.P.D	25 tons
Reverse Calibration	Yes
Temperature Compensation	Yes
Total Weight Generated	Yes
Double or Single Weighing	Yes
Manned or Unmanned	Option
PC Required	Yes
Option of Automation	Yes
Option of Unmanned	Yes
Option of Centralization	Yes
Direct IT Systems Interfacing Possible	Yes
Cloud Interfacing Possible	Yes
Pre-Loading of Fleet Possible	Yes
Deck Warranty	6 Years
Instrumentation Warranty	12 months
Trade Approval	Yes

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24 hours, 7 Days a week

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