



Accurately Weighing Africa



# WB 80TLP

(WB-LP)

Versatile Precision Solution

SASCO AFRICA WB-80LP

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## WB 80T LP (WB-LP)

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-LP Product Overview

The WB-LP sets a new dimension cost benefit value for a trade-approved Truck Weighing Systems, delivering both total weight and axle weights with exceptional accuracy.

Distinguished by its bi-directional functionality, this system outperforms standard multi-decks. Not only is the WB-LP a cost-effective alternative to the WB-AW, but it also utilizes the same Sasco DD1015 indicator and ProWeigh software, ensuring consistent high accuracy and comprehensive axle weighing functionality.

Cost savings are strategically achieved through several optimisations:

- Utilisation of more economical Sasco S16 load cells.
- Reduction of deck plate thickness from 10mm to 8mm.
- While maintaining a total capacity of 80T, the WB-LP achieves lower axle loadings at 9T, making it a financially prudent choice without compromising performance.
- Specified daily truck weighing's are reduced from 120p.d. to 60 p.d.



## Sasco DD1015 Indicator



The image shows the Sasco DD1015 Indicator, a rugged industrial device with a stainless steel enclosure. It features a color LCD screen displaying the 'Sasco Africa' logo, the tagline 'Accurately Weighing Africa', and the text 'Designed to be Connected'. To the right of the screen is a power button. The device has a sturdy base with mounting tabs and a connector port at the bottom.

- 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 S16 Load Cells

The Sasco S16 load cells are characterized by the following specifications:



Accuracy Class	C3 (OIML R60)
Rated Capacity	10, 15, 20, 25, 30, 40, 50 t
Rated Sensitivity	500,000 ISN
Update Rate	50 Hz
Baud Rate	9600/19200 bps
Creep (30 minutes)	±0,016% F.S.
Temperature Error	±0,01% / 10°C
Total Error	±0,01% F.S.
Safe Overload	150% F.S.
Ultimate Overload	200% F.S.
Op. Temperature	-30~70 °C
Supply Voltage	7~15 VDC
Housing Material	Alloy Steel
Rating	IP 68
Type	Analogue with digitisation
In built lightning protection	No
Reverse calibration	No
Rodent protection cables	No
Submersible	No
Approval	OIML

## 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									
		Version 4.6.2		<b>WEIGHBRIDGE TICKET SLIP</b>					
				<b>Horse Registration</b> VEHICLE					
				<b>Weighbridge Name</b> Road train weighbridge2					
				<b>Company Name</b> Assmang Blackrock Mine Operation					
				<b>Site Name</b> ****					
				<b>Product</b> ****					
				*** COPY ***					
<b>TICKET NUMBER</b>		SMS00000019		<b>TICKET DATE</b>		2022/09/02 13:47			
<b>VEHICLE DETAILS</b>									
<b>Registration Number</b>		VEHICLE		TRAILER123		TRAILER456			
<b>Type</b>		****		****		****			
<b>Operator</b>		Private		****		****			
<b>Contact Person</b>		****		****		****			
<b>Insurance Provider</b>		****		****		****			
<b>Cover Type</b>		****		****		****			
<b>Policy Number</b>		****		****		****			
<b>TRADE WEIGHING DETAILS</b>									
<u>First Weigh Details</u>				<u>Second Weigh Details</u>			<u>Weigh Calculations</u>		
<b>Weight (kg)</b>		21,000		<b>Weight (kg)</b>		56,000		<b>NETT Weight (kg)</b> 35,000	
<b>Date Time</b>		2022/09/02 13:43		<b>Date Time</b>		2022/09/02 13:46		<b>Product NETT (kg)</b> 35,000	
<b>Operator</b>		sa		<b>Operator</b>		sa		<b>Total Difference</b> 35,000	
								<b>Total Cost</b> 0.00	
<b>LOADING DETAILS</b>									
<b>Axle Groups</b>		<b>Actual (kg)</b>		<b>Permissible (kg)</b>		<b>Difference (kg)</b>			
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			
<b>TOTALS</b>		56,000		61,700		-5,700		<b>Speed</b> 0.00 km/h	
<b>CONSIGNEE DETAILS</b>									
<b>Consignee Code</b>				<b>Address</b>					
<b>Consignee Name</b>									
<b>Document Number</b> ROA00000000002									
<b>Document Type</b> Sales				<b>Contact Name</b>		****			
<b>Document Weight</b> 0				<b>Contact Number</b>		****			
<b>CONSIGNOR DETAILS</b>									
<b>Consignor Name</b> Assmang Blackrock Mine Operation				<b>Contact Name</b>		****			
<b>Address</b> ****				<b>Contact Number</b>		****			
****									
****									

The system requirements for ProWeigh+ are:

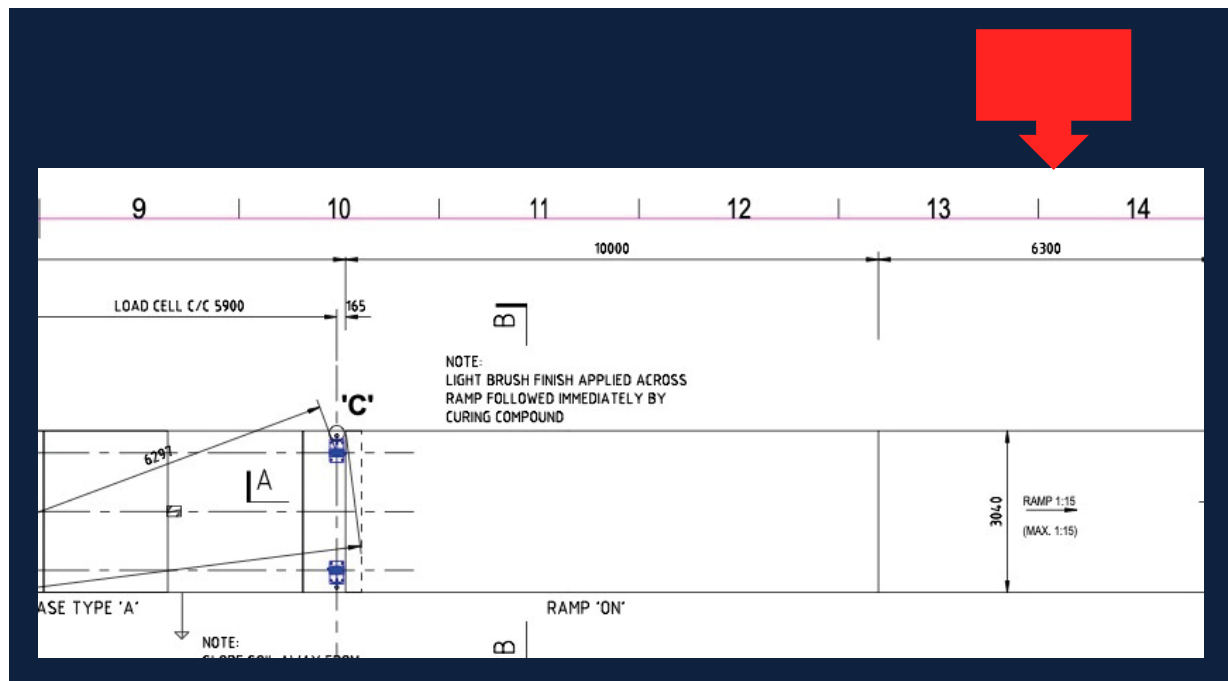
- CPU : Intel Core i5 (8th generation or newer)
- RAM : 8GB or Higher
- Storage: 500GB or more
- Network: Ethernet and WiFi
- Operating System: Windows 10 or 11
- Printer: A4 printer

## Civil Works

The WB- LP is a low-profile weighbridge that can be installed either in the ground or above ground.

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 A** headquartered in Lilongwe, Malawi, manages a pivotal distribution centre facilitating truck dispatches to both Zambia and Mozambique, traversing various Overloading Checkpoints along the route.

With a daily average of 50 truck departures, each distribution truck carries a total weight of approximately 30,000kg. However, optimizing load allocation within axle weighing limits poses a challenge. While Company A doesn't necessitate an unmanned weighbridge, they seek a solution that combines basic automation with seamless integration into their stock control system.

Crucially, Company A requires the ability to compare total weights determined at the time of loading with the net cargo weight over the weighbridge. To achieve this, they aim to pre-load empty truck weights into a database.

The WB-LP emerges as the optimal solution, offering cost-effectiveness while encompassing all the desired functionalities:

- Accurate measurement of total weight and axle weights
- Integration with ProWeigh+ Fleet Master Truck database for pre-storing empty truck weights
- Seamless interfacing with ERP data
- Capability to handle a maximum weight of 80 tons and individual axle loadings (T axle loadings)
- Utilization of ProWeigh+ automation module for the seamless integration of booms and cameras, enabling basic automation.

## Technical Specifications

WEIGHING HARDWARE	DETAILS
Total Capacity (24m deck)	80T
Axle Loading	9T
Total Accuracy	+99.95%
Axle Weighing Functionality	Yes
Number of Axles	No limit
Axle Weighing Accuracy	+ 97.5%

## Technical Specifications

WEIGHING HARDWARE	DETAILS
Recommended Weighing p.d.	<60
Installation	Above or inground
Level approach Ramp Required	If installed above ground
Ramp Specifications	10m level on out bound
Deck Height	Low Profile
Deck Width	3m
Deck Length	6m, 12m, 18m, 24m or 30m
Plate Thickness	8mm
Module Sizes	6m
Deck Warranty	5 years
Indicator	DD1015
Software	Sasco ProWeigh
Load Cells	Sasco S 16
Number	10 on 24m
Type	Digitised
Load Cell IP Rating	IP 68
Housing Material	Stainless Steel
Digitisation	Yes
Digitisation System	Bilancial D-Link
Temperature Compensation	Yes Via D-Link
Deck Warranty	5 years
Instrumentation Warranty	1 year
OIML Approval	Yes
South Africa Trade Approval	Yes
SADC Trade Approval	Yes
Automation Option	Yes
Unmanned Option +ANPR	Yes
ERP Data Interfacing Option	Yes
Fleet Data Base Option	Yes

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