DIGITAL INDUSTRIAL WEIGHBRIDGE (WB-DI)

Digital Accuracy with Robust Simplicity

Sasco is a dynamic weighing solutions focused company which procures and supports a leading range of globally sourced industrial weighing technologies. Sasco has the highest metrological ranking of any Southern and Central African company, and as a result of our experience gained through 100 years of operation, we are uniquely positioned to specify and supply optimal weighing equipment, automation and weighing information data solutions to Southern and Central Africa's leading industrial companies. Sasco reputation has been built on innovation and choice underpinned by professionalism, modernity and experience.

GENERAL

Simple robust digital weighbridges are an important product within Sasco's range of Truck Weighing solutions.

Other products within Sasco's truck weighing range which offer similar but more complex solution, include multi deck weighbridges, weigh-in-motion wimbridges, standard single deck weighbridges with upgraded instrumentation to enable axle weighing, group axle weighers and weigh pads.

Under normal industrial weighing conditions requiring high accuracy trade weighing is required, the WB-DI is the optimal solution, offering a robust solution with simplicity of operations.

PRODUCT OVERVIEW

The WB-DI is a highly accurate trade approved digital Truck Weighing System providing total weight. Sasco typically achieves accuracy levels on total weight 99.95%, with a maximum total loading of up to 60 tons.

Key elements of the system are:

• It is both simple to install and simple to operate.

• It robust with both the indicator and load cells being IP68 rated.

• Complete digital instrumentation with all components being manufactured in Europe.

• The key instrumentation components are one SD1000 indicator and ten SD16 digital load cells.

• The deck is of a low-profile design, ideal for mounting above ground. The grade of steel used is a high grade being WN10025/ Q234D.

• The civil works are straight forward, with design and instructions being included with the weighbridge.

• The SD1000 indicator can be connected directly to a printer, without the need for a PC.

• There is the option of linking the indicator to a PC and of loading Sasco ProWeigh+ software.

• Sasco ProWeigh+ software also has the functionality to facilitate the integration of weighing data to a range of ERP systems whether directly or via the Cloud,

INDICATOR

The indicator used on the WB-DI is the SD 1000. The reasons for deciding to specify the WB-DI with this indicator are as follows:

• The casing is stainless steel and the indicator has an IP 68 rating.

• Calibrations are made easy by the indicators automatic and/or manual corner difference functionality.

• Score boards and printers are easily connected using the indicators various serial and parallel port interfaces.

• The data storage capacity allows for the storage of up to 1500 vehicle tares, 100 customer names and up to 2400 weighing records.

• The indicator has a port into which a 12V/ 7Ah battery can be plugged to provide power in areas were electricity is a problem. When there is power the indicator charges the battery. When there is no power the battery powers the indicator and load cells

• No PC is required, and a printer can be connected directly to the indicator.

LOAD CELLS

The WB-DI comes with SD 1000 load cells.

The key features of these load cells are:

• The load cells are of a rock and pin structure which gives them good longevity.

• Laser welded and are IP 68 rated

• Achieved OIML C3 approval level

BASIC CIVIL SKETCH

The civil works for the WB-DI are straight forward and are inexpensive:

• If earth ramps are used, then in total approximately 9 cubes of concrete are required.

• If concrete ramps are to be built, then the total amount of concrete required increase to 22 cubes.

APPLICATION EXAMPLE

Company D is a rice processing factory which buys in raw rice and processes the into a finished bagged rice. Raw product has therefore to be weighed in and finished product weighed out. The company is a simple operation and does not have an advanced IT system.

Company D simply wants to know with a high degree of accuracy the weights of the trucks coming in and out of the site, from this to

determine the net cargo weights, and to print a simple ticket of these weights. CAPEX is also a challenge and therefore Company D wants to save money by doing its own civil works.

The WB-DI will be the optimal solution for the following reasons:

• Using the civil drawings supplied with the weighbridge, Company D will do its own civil works and will place the weighbridge decks in place after the concrete has cured.

• A local weighing technician will be contracted to wire up the instrumentation, commission the weighbridge and the calibrate it.

• Once installed the SD 1000 indicator will be connected up to a dot matrix printer.

Trucks entering and leaving the site will be weighed, and with each weighing a weighing ticket will be printed and attached to the relevant documentation.

TECHNICAL SPECIFICATIONS

	WB-DI
Total Accuracy	±99.95%
Installation	Above ground
Deck Width	3m
Deck Length	24m
Indicator	One - SD1000
Indicator IP Rating	IP 68
Load Cells	Ten - SD16
Load Cell IP Rating	IP68
Dlink Required	No
Maximum Total Weigh	60 tons
Maximum Axle Weigh	9 tons
PC Required	No
Option of PC	Yes
Option of ProWeigh+ software	Yes
Direct IT Systems Interfacing Possible	Yes
Deck Warranty	12 Years
Instrumentation Warranty	12 months
Trade Approval	Yes

APPROVAL

OIML Approved.