

Steel deck weighbridge.

Technical Specification



DESCRIPTION

The ZM510-BMI steel deck weighbridge's outstanding design incorporates the most advanced engineering and production technology. The scale is designed for standard duty applications.

FEATURES AND BENEFITS

Platform Structure – Modular construction in 3m width, comprising one to four modules. (Up to 24m length, 100 tonne capacity).

Mild steel, fully welded sandwich design provides maximum strength while sealing the structure from the elements responsible for reducing the life of the deck. Chequered platform plates are used for improved anti-skid performance. The low height of the deck saves the cost of ramps which are required for surface mounted weighbridges.

The first (base) module has four load cells supporting it. Subsequent add-on modules have two load cells. Cables are routed through conduits secured to the weighbridge structure.

Factory Assembled - All our weighbridges are factory assembled to minimise installation time and ensure high quality product consistency.

Load cells - Our load cells are made to global standards from high quality alloy steel, that has been heat treated quenched and tempered to resist corrosion. The strain gauges are hermetically sealed against moisture or corrosive elements to ensure suitability for harsh environments. Internally fitted surge arrestors provide lightning protection for load cells.

Indicator - The ZM510 indicator with built-in application software or PC based software simplifies vehicle weighing and management of weight data records. The graphical 320x80 pixel, ISTN display provides visibility in all lighting conditions. The indicator has a built-in, real-time clock. The enclosure with IP69K rating is built to withstand all weather conditions. The indicator has built in connectivity with 3xRS232, Ethernet port for TCP/IP/, Ethernet IP or MODBUS, 2 x USB ports and optional cards for wireless 802.11 b/g, Fieldbus Interfaces of Profibus/ Devicenet.

Guide Rails - Heavy-duty, Epoxy yellow painted guide rails are bolted in place to provide a strong, attractive barrier against accidental drive offs for surface mounted weighbridges. The 75mm diameter tubing is gentle on truck wheel and is offset to allow full use of the deck.

OR

Metal Beam Crash Barriers - Galvanized metal beam barriers, commonly seen on highways, are fixed on both sides of the weighbridge to act as a guide to driver. The metal crash beam barrier is rugged and suitable for pit/ surface mounted installations, providing a natural barrier to other traffic.

Unmanned Systems - An optional addition to your bridge, unmanned systems allow you 24/7 scale usage without the need for an operator. Unmanned systems come with RFID readers, traffic lights and sensors. These systems are customised to meet your requirements.

SPECIFICATIONS

General

Gross Capacity:

40 to 100 tonnes

Platform Lengths:

6m to 24m

Platform Width:

3 meter

Module Size:

4.5m - 9m long, 3m wide modules

Dual Tandem Axle Rating:

Refer to capacity table below

Mounting:

Pit or Surface mountable

Height:

355mm high

Material of Construction

High strength parallel flange beams with 8mm (6mm for 9m) chequered top plate and plain bottom plate for strength and sealing. Sourced from reputed manufacturers.

Corrosion Protection

Steel surfaces are blasted to a roughness of SA 2 ½ before epoxy painting.

Loadcell

Model / Accuracy:

- Digital T301x, 30t/45t
- OIML C6 approved with integral 25m PU Cable

OR

- Analog T302x, 22.5t/45t
- OIML C5 approved with integral 20m PU Cable

Overload Factor:

150%

IP Rating:

IP68, IP69K

Junction Box

IP65 mild steel junction box with lock.

Options

- Connect up to 4 platforms to same display.
- Guide rails or metal crash barrier
- IP65 rated stainless steel junction box
- Remote 50/100 mm LED Display
- Printer
- Portable weigh cabin
- Weight Management Software
- Unmanned Weighing System
- Surveillance system (cameras)
- Positioning system
- Hazardous area applications

Approvals

Approved by Legal Metrology Act.

Model	Platform LxW (m)	Modules (Nos.)	Load Cells (Nos.)	Dual Tandem Axle Load (t)	Gross Capacity (tonne)
ZM510-BMI06A	6 x 3	1	4	32	40t x 10kg
ZM510-BMI08A	8 x 3	1	4	32	40t x 10kg
ZM510-BMI09A	9 x 3	2	6	32	50/60t x 10kg
ZM510-BMI10A	10 x 3	2	6	36	50/60t x 10kg
ZM510-BMI12A	12 x 3	2	6	36	50/60t x 10kg
ZM510-BMI14A	14 x 3	3	8	36	80/100t x 20kg
ZM510-BMI16A	16 x 3	2	6	32	50/60t x 10kg
		3	8	36	80/100t x 20kg
ZM510-BMI18A	18 x 3	2	6	32	50/60t x 10kg
		3	8	36	80/100t x 20kg
ZM510-BMI24A	24 x 3	4	10	36	80/100t x 20kg

Note: For longevity, ensure you select an appropriate product for your application.

Avery Weigh-Tronix

www.averyweigh-tronix.com

Avery Weigh-Tronix is an ITW company



Avery India Ltd. is part of Avery Weigh-Tronix. Avery Weigh-Tronix is a trademark of the Illinois Tool Works group of companies whose ultimate parent company is Illinois Tool Works Inc ("Illinois Tool Works"). Copyright © 2018 Illinois Tool Works. All rights reserved. This publication is issued to provide outline information only and may not be regarded as a representation relating to the products or services concerned. This publication was correct at the time of going to print, however Avery Weigh-Tronix reserves the right to alter without notice the specification, design, price or conditions of supply of any product or service at any time.

ZM510-BMI_spec_in.indd
V1_0318