Avery Weigh-Tronix

ZM510-J2
Weighbridge

Heavy duty, steel deck weighbridge.

Technical Specification

DESCRIPTION

The ZM510-J2 heavy duty steel deck weighbridge's outstanding design incorporates the most advanced engineering and production technology. The weighbridge is suitable for almost any industrial application where weighing trucks or other vehicles is a necessity. The scale's rugged design and strength is market leading, providing the everyday reliability your business requires.

FEATURES AND BENEFITS

Platform Structure – Modular construction in widths of 3m and 3.5m, comprising 1-3 modules. (Up to 18m length, 120t 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 tampered 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.

ZM510-J2 Weighbridge *Technical Specification*

SPECIFICATIONS

General

Gross Capacity:
50 to 120 tonnes

Platform Lengths:
9m to 18m

Platform Width:
3m and 3.5m

Module Size:
4.5m to 6m

Dual Tandem Axle Rating:
42/50t DTA for 50/60t capacity,
65t TTA for 100t capacity

Mounting:
Pit or Surface mountable

Height:
405mm 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 and 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.)	Gross Capacity (tonne)
ZM510-J209A	9 x 3	2	6	50t x 10kg 60t x 10kg
ZM510-J212A	12 x 3	2	6	60t x 10kg
ZM510-J214A	14 x 3	3	8	80t x 20kg 100t x 20kg
ZM510-J216A	16 x 3	3	8	60t x 10kg 80t x 20kg 100t x 20kg
ZM510-J218A	18 x 3	3	8	60t x 10kg 80t x 20kg 100t x 20kg
ZM510-J218AW	18 x 3.5	3	8	100t x 20kg
ZM510-J218AX	18 x 3	3	8	120t x 20kg

Avery Weigh-Tronix

www.averyweigh-tronix.com

Avery Weigh-Tronix is an ITW company

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