

Uniweigher

The most innovative and exciting weighbridge ever manufactured



Technical Description

Structure

All load bearing members are heavy duty universal beams that run in the same direction as the traffic flow to ensure the weights are directly on the beams for the full length of the weighbridge.

Surface plate is 10mm durbar, with all seams on the surface fully welded for additional strength and to prevent ingress of water or product spillage to the sub structure. Access to the load cells and for debris removal is through removable 750mm plate sections at each end and the middle on multi-module machines.

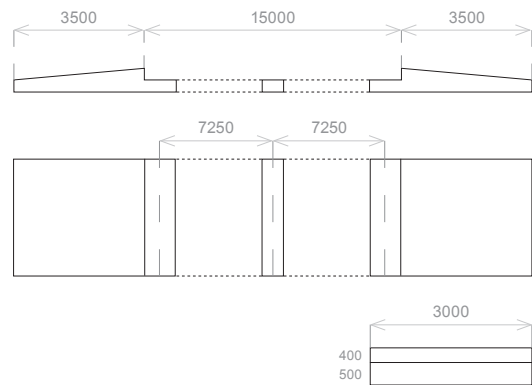
Due to the high strength of the structure, there is only 6mm of deflection in the centre of each module under a 3 axle 25 tonne load. Low deflection means less fatigue to the structure and a longer life.

Finish

Structure is fabricated from a high grade blasted material. After fabrication the structure is primed and two coats of gloss finish applied.

Load cells

Platform structure has push in sockets for Mettron lighting protection system. The load cells fit into lighting protection system with mounting cup to suit load cell. No nuts or bolts are required in the mounting system. Steel conduits are fitted for wiring.



Foundation

For surface mounting a simple flat concrete slab is required with ramps to 400mm are required.

Options

- T Section rubber for pit installation
- Portable ramps for surface mounting
- Side kerbs for surface mounting
- Load pillars to provide additional height and deck clearance
- Any length supplied
- Any width supplied
- Any capacity supplied

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The new *Uniweigher* modular weighbridge incorporates new designs for which 2 patents have been applied for.

Whilst modular weighbridges have been available since electronic weighing was first introduced, they have found new favour in recent years due to the increase in steel costs and reduction in the price of loadcells.

A traditional modular weighbridge will comprise a first module incorporating 4 loadcells, and additional add on modules incorporating an extra 2 loadcells per module. These add on modules cannot be separated and used as an independent weighbridge. This is where the *Uniweigher* is so unique.

Every section is manufactured with the mounting parts for 4 loadcells per module. This means each module can be used as an independent weighbridge.

Both end sections of every module are identical, with a unique connecting pin for which a patent has been applied for. Any number of identical modules can be connected together to either end of the modules with the *Uniweigher Link* (patent applied for) to form multi-module weighbridges, yet when additional modules are added to the first, only 2 additional loadcell mounts are used.

Multi-module weighbridges can easily be separated and returned to independent weighbridges.

The concept was born from our own hire weighbridge requirements:

We found with our stock of 8m and 16m weighbridges that we would sometimes have spare capacity of 1 size and a shortage of another. A customer needing an 8m bridge may not have space for a 16m and a customer needing a 16m could not weigh artics on an 8m.

By designing and standardising on the 8m *Uniweigher* module, we can meet every customers requirement every time by supplying single or multiple modules.

4 standard identical modules can be linked together to form different weighbridge sizes and combinations from 4 x 8m x 3m weighbridges, 2 of 16m x 3m weighbridges, 1 of 32m x 3m weighbridge to 1 x 16m x 6m weighbridge and many other variations for either surface or pit mounting.

Any combination of modules can be used to suit each individual site or customer's requirements.

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