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The JMS 50 tonne Pit Mounted Weighbridge



The JMS 50 tonne Pit weighbridge is a market leader, designed for a lifetime of heavy duty weighing.

- Designed to give a lifetime of reliable service.
- Built by us to our proven and robust design.
- Constructed of heavy duty steel sections, fully welded, to give superior strength.
- 12.5mm Durbar plates fully seam welded on top and heavily stitch welded underneath to give a long lasting, hardwearing weighbridge deck.
- 1 metre deep pit allows for easier servicing and cleaning. Access is through three manholes in the weighbridge deck. These manholes require no bolts or threaded holes, which ensures access is available in years to come.
- Four Revere 5223 load cells, the best on the market. These are mounted in our effective Masterlink Suspension System. This reduces shock loads away from the load cell and protects from ingress and moisture. The load cells are mounted high up underneath the structure to keep them well away from any accumulated water or debris
- A choice of Ian Fellows Ltd Indicators available, the most advanced weighing indication manufacturers worldwide. Coupled with the Revere load cells this ensures highly accurate, reliable weighing and offers a variety of peripherals e.g. ticket printers, remote display or computer link.
- All civil, foundation and pit construction work, installation and commissioning are professionally carried out by our dedicated skilled installation team.
- Can be connected to a nearby drain or fitted with an automatic pump.
- Available in a variety of sizes and capacities. Standard is 15 metres long 50 tonne capacity.
- Trade Approved.

Call us now for a site consultation and quotation with no obligation, on 07831 461860



The Revere Double Ended Shear Beam mounted in our Self Aligning Masterlink Suspension System.

Weighbridge deck suspended from pairs of 15 tonne rated capacity masterlinks, connected to 42mm diameter heavy duty bobbins to form our Masterlink Suspension System. This reduces shock loads by allowing the structure to swing on the links rather than shock forces passing through the load cell. This increases the accurate life of the load cell.

Adjustable Oscillation Stops and Steel Receiver Plate form a robust weighbridge movement control.

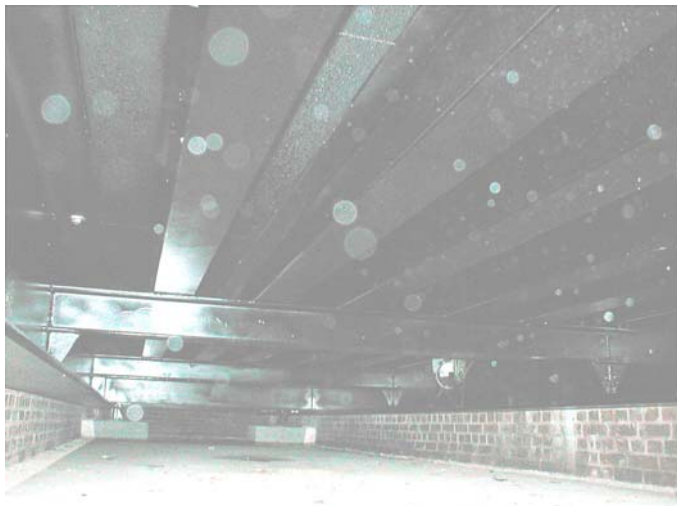
The heavy-duty nut and bolt arrangement, located on each corner of the weighbridge, allows for full, reliable adjustment and control of weighbridge movement. This allows for adjustment during thermal expansion and contraction of the weighbridge structure.



1 metre deep pit with generous clearance underneath the weighbridge to allow cleaning.

Load cells are mounted high up on the main beams, removing them from possible build up of ingress and moisture. This will maximise the accurate life of the weighbridge. Access to the pit is through three manholes.

Drainage can be from a connection to main drain or submersible pump.



All signal cables are routed in steel conduit tubes to the centre IP68 sealed junction box.

The sensitive load cell adjustment circuit board is installed in the weigh office away from the harsh environment of the weighbridge pit; this allows easier and reliable calibration, setup and servicing.

Weighbridge finished in two coats of an oxide corrosion inhibitor primer and finished with two coats of black chlorinated rubber compound paint.



Channel iron frame cast into concrete foundations creates a strong pit edge and can aid visibility.

The pit frame is heavily anchored into the concrete reinforcements to prevent the frame loosening under constant traffic movements.



2 heavy duty main beams and 6 longitudinal sub beams supported by 6 latitudinal transoms.

Constructed of heavy duty steel sections, fully welded, to give superior strength.

All steel work is shot-blasted and primed before construction.

The heavy duty sections and construction creates unrivalled structural strength, capable of carrying your every load.



12.5mm Durbar plates fully seam welded on top and heavily stitch welded underneath to give a long lasting, hard wearing weighbridge deck.

Access to the pit is through three manholes. No bolts are required so therefore no problems with seized bolts.

T-Section rubber inserts can be fitted around the weighbridge to help prevent material falling down between weighbridge and pit wall.



A pit-mounted weighbridge installation can be advantageous in a restricted site.

A flush finish to the installation allows access on and over the weighbridge from any direction. This can help preserve vital site space and access. With our dedicated, professional and skilled installation team, John Maguire and Son are able to offer all civil work, pit construction, installation and commissioning.

Every installation can be tailor made to suit your site layout and levels or new project requirements. Contact John Maguire and Son to arrange a site consultation.



Specification

The JMS Pit Weighbridge is a market leading weighbridge designed for a lifetime of heavy duty weighing.

- Weighbridge platform structure is of our own proven and robust design and manufacture, built to the highest standards to provide our customers with a lifetime of reliable and accurate service.
- Heavily fabricated one piece structure constructed of all new steel – weighing 15.3 tonnes.
- Standard size: 15 metres by 3 metres, 50 tonne capacity; other sizes available on request.
- Platform deck plates are 12.5mm thick non-slip durbar pattern and fully welded top and bottom.
- All steelwork shot blasted and painted with three coats of protective paint.
- Weighbridge pit 1 metre deep as standard, other sizes available.
- Weighbridges supported on four steel pedestals using four Revere Transducer 5223 50k shear beam load cells – the very best load cells on the market - mounted externally on main steel beams. Our unique load cell mounting and oscillation control stops protect the cells from all the everyday use and abuse a modern weighbridge needs to withstand.
- Weighbridges are connected to Ian Fellows Ltd digital indication, offering the latest and most reliable weighing technology; coupled with industrial signal wiring practices and Revere load cells this creates an accurate and reliable weighing circuit.
- All civil and foundation work, installation and commissioning is professionally carried out by our dedicated skilled installation team.
- Tailored made civil engineering and foundations to suit existing site layouts.
- Simple yet accurate and reliable design; requires little maintenance. Reduced cost of ownership.
- Trade approved to 3000 divisions Class III and EC verified on site by local Weights and Measures authority.

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