

Ton-Tel™ Portable Weigh Beams

**Griffith
Elder**

Split-Weigh system, above ground



The Ton-Tel™ Portable Weigh Beams are a new development in portable weighbridges, enabling industrial vehicles to monitor their load quickly and accurately in any given location. At the heart of this new weighbridge system is two portable Weigh Beams, each with a series of six digital load cell sensors. The Weigh Beams deploy the **Griffith Elder Split-Weigh system**, which is an established method of accurately weighing a vehicle. Small vehicles are weighed in one go; bigger trucks, tractors and trailers and articulated lorries are weighed in two parts.

Automatic weighing

Weighing a vehicle is a quick, driver-only operation. When the weighbridge is at zero, a green traffic light tells the driver to move the vehicle onto the weigh beams. The traffic light turns red, telling the driver to stop and wait. After approximately 3 seconds the indicator catches the weight and the traffic light returns to green, telling the driver to move forward. If a trailer is attached, the trailer axles are moved to the weigh beams to be weighed in the same way. When the whole vehicle has been weighed, the green traffic light tells the driver to move off the weigh beams. After about 20 seconds the two weights are added together and put into memory and a ticket is automatically printed.

Portable

The heavy duty construction of the Portable Weigh Beams makes them suitable to move and work in harsh conditions, particularly in mines and on farms where reliability and portability are essential requirements.

The weigh beams can be installed and commissioned locally following Griffith Elder's easy-to-follow instruction manual. The load cells are factory calibrated so no on-site calibration is needed. The ramps are placed in position between two ramps in foot plates for easy assembly and sturdiness during use. A signal cable runs from the platform to the indicator or computer. Plug the cable in and the system is ready for use.

The entire system runs from 12 volts dc and can be run from a normal car or lorry battery or the re-chargeable internal battery. Hence no mains power is needed which gives maximum flexibility for using the weighbridge in remote locations.

Weight Sensors

The weight sensors in each Weigh Beam are designed to be robust and durable, particularly when being constantly moved. They incorporate the latest WeighTel™ digital technology and are factory calibrated for maximum accuracy. Each weight sensor is manufactured from stainless steel and is fully waterproof to IP68 standard to ensure a long and trouble free life.

The Portable Weigh Beams have a capacity of up to 30 or 60 tonnes, depending on the model. When Split-Weighing, a vehicle up to 200 tonnes gross weight can be weighed.

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Ton-Tel™ Portable Weigh Beams

Choice of Recording Equipment

Griffith Elder

Weightel™ digital
12 tonne load cells



Large display

The weight of the axles can be shown on a large external display with 120 mm high red LED digits making the information visible to the driver immediately. At the end of the weighing the display will show the gross weight of the vehicle. The large display is fully waterproof. The display shows zero when the platform is idle and shows a row of dashes when an error is detected.

Indicator and printer

The indicator and printer are built into a tough waterproof suitcase housing for ease of carrying between locations. When the lid is closed the printer is completely waterproof which makes it very suitable for locations with no site hut. The indicator has a memory capacity for 10,000 weighings with serial number, date and time. The printout shows the part weights and total weight of the vehicle, with date, time and ticket number. There is also space for the name of the owner on the head of the ticket.

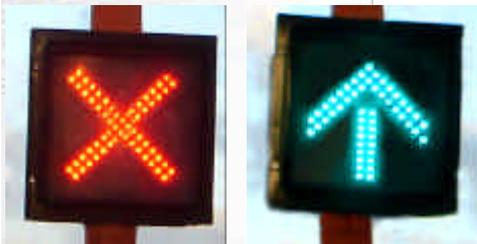
Computer

As an alternative to an indicator and printer, the Weigh Beams can be connected direct to a PC with full software. The computer gives the operator a full database system with the ability to record the details at the time of weighing and hence allows detailed reports to be made or print outs of invoices and lists of all transactions and vehicles for a particular customer.

Software is also available for recording and detailing of overloading including the automatic calculation of fines.

General Specifications

Length of beams	2.5 metres or 5.8 metres
Maximum weight on beams	30 tonnes or 60 tonnes
Maximum gross vehicle weight	200 tonnes
Speed of operation	2 weighings typically take a maximum of 20 seconds
Power required	12 volts DC
Static accuracy	+/- 20 kg
Temperature range	-30°C to +70°C
Load cells	Model DE-12T-CD or ST-12T-CD
Warranty	18 months on all parts from date of shipment



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