

Ton-Tel™ Split-Weigh Weighbridge

Rugged construction, Accurate weights

**Griffith
Elder**



Weightel™ digital loadcells available in different sizes



Plug-And-Weigh™ Proven reliability

Weightel™ digital load cells for maximum accuracy

Choice of indicators and software to suit the application

The Ton-Tel™ is a fast and accurate weighing system which will weigh any type of vehicle regardless of its length or the number of axles. A vehicle drives onto the platform and a red traffic light shows when to stop. The light turns green to show when to move on to the next axles. Weighing of each group of axles is automatic and the driver does not need to get out of the cab until the vehicle has been fully weighed.

The heavy duty construction of the Split-Weigh weighbridge is designed to work in harsh conditions and is particularly suited to use in mines and on farms where reliability and ease of use are essential requirements. The platform is made from a welded steel superstructure with a durbar surface plate for maximum strength.

Plug-And-Weigh™ technology with factory calibrated Weightel™ digital load cells means that set-up time on site is minimal. No special tools are needed to install the weighbridge system. Usually no site calibration is necessary. The sophisticated electronic circuits have been sealed against the elements to ensure a long and trouble free life.

Civil Works

There are two essential rules for obtaining accurate weights when split weighing a vehicle, namely: a) the weighing platform must be recessed into the ground at a prepared site and b) the approach and exit to the weighing platform need to be level for approximately the length of the longest vehicles being weighed. Typically the concrete approach and exit should each be 10 metres long so that vehicles can be weighed in both directions.

We supply a pit frame to simplify construction and ensure that the weighbridge is located correctly.

Griffith Elder recognise that the site of a weighbridge is of prime consideration and so we offer an advisory service for location, backed up by easy to follow instructions and technical assistance.

Our civil engineering team are able to provide a complete turn-key package if required, undertaking all aspects of the installation and commissioning.

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The Split-Weigh System

Low maintenance, long service life

**Griffith
Elder**



Operation

Split weighing groups of axles is an established method of accurately weighing a vehicle and is the basis of the Ton-Tel™ split-weigh system. Small vehicles are weighed in one go, bigger trucks and tractors and trailers are weighed in two parts, whilst large vehicles such as articulated lorries are weighed in three.

As a vehicle drives onto the weighbridge it is controlled by traffic lights which show the driver when to stop and when to move forwards. The weight of each group of axles is automatically captured in just three seconds. Then, when the weighing is complete, these individual weights are automatically added together to give the total weight of the vehicle.

Installation

The factory calibrated weighbridge comes ready to install into a pre-prepared pit. If the framework provided by us is used then the weighbridge platform will go straight into the pit without any special tools to complete the operation.

A signal cable runs from the platform to the indicator or computer. Plug the cable in and the system is ready to be used.

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.

Recording Equipment

A choice of indicators is available or connect direct to a PC with full software. This is the normal option for today's weighbridges. 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.



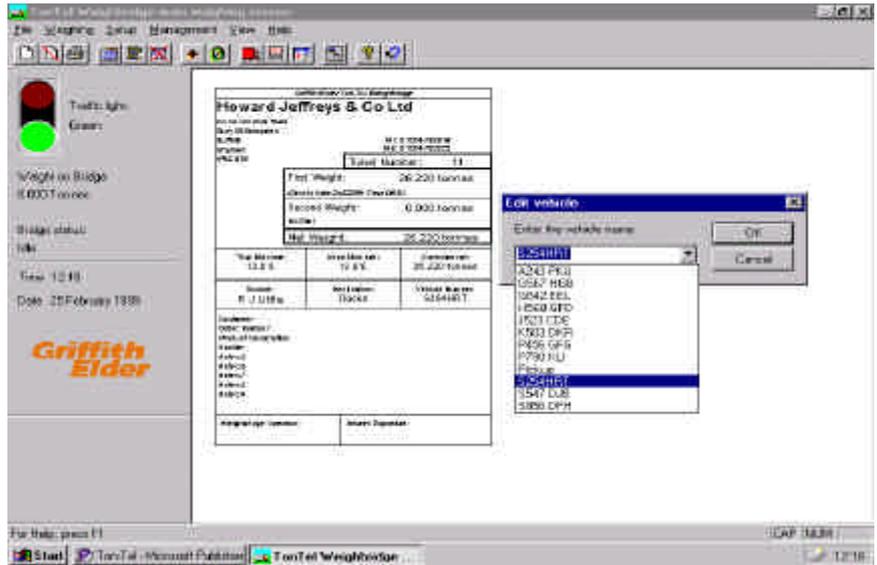
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Ton-Tel™ Split-Weigh Bridge

Specifications

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Platform Sizes:

3.6 metres long by 2.75 metres wide

4.0 metres long by 3.0 metres wide

5.0 metres long by 3.0 metres wide

5.5 metres long by 3.0 metres wide

6.0 metres long by 3.0 metres wide

6.4 metres long by 3.0 metres wide

8.0 metres long by 3.0 metres wide

Maximum Weight on Platform:

30 tonnes; 40 tonnes; 60 tonnes; 100 tonnes

Maximum Total Vehicle Weight:

250 tonnes.

Static accuracy:

+/- 20 kg.

Indicator resolution:

10 kg.

Speed of operation:

Automatic static weighing system. Weighing an articulated truck with three sets of axles takes typically 17 to 20 seconds.

Power requirements:

110/220 v ac; 50/60 hz.

Or 12 volts DC. Can be run from solar panel

Platform type:

Composite welded construction, mild steel with Durbar plate surface, epoxy coated.

Loadcells:

12 tonnes; 20 tonnes; 30 tonnes capacity each, welded caps, Sealed to IP68.

Electronics:

Microprocessor weighing control sealed to IP68.

Approach and exit roadways:

10 metres (recommended).

Operating temperature range:

-30°C to +70°C

Computer Software Options:

Transport Management software

Law Enforcement software

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