Griffith Elder

The Ton-Tel Portable Weighbridge

Digital weighing for accurate results

Sizes: **6.3m, 9.3m 12.3m, 15.3m, 18.3m, 21.3m, 22.8m, 24.3m, 28.3m, 30.3m.**

Proven reliability, lower total cost of ownership

Load Cell weight sensors, sealed to IP68.

Computer system for easy recording and reporting on all vehicles and loads.

Weighing direct to indicator with printer or to a notebook computer.

The Ton-Tel portable weighbridge has been built to last in a tough environment. Vehicles can now be weighed precisely using Griffith Elder digital electronic technology, without compromise on the rugged build strength which makes these weighbridges suitable for the heaviest usage.

The Ton-Tel portable weighbridge is made so that it can easily and quickly be re-located from one site to another. The sections are dropped onto weigh beams and locked into position using the Griffith Elder Quick-Lock system. All cables are plug-in for quick fit. The weighbridge is Factory calibrated.

The strength of the Ton-Tel is in the heavy duty welded steel structure. High quality steel beams form the superstructure with a surface deck finished in steel chequer plate to provide a high strength non-skid platform of optimum rigidity. There are no wearing parts and all the electronics are sealed against the environment to ensure a long and trouble free life.

No special tools are needed to install or dismantle the scale.

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Ton-Tel Portable Weighbridge
Simple drop in place sections

Weigh Beams

Each weighbridge has a number of weigh beams which actually detect the weight on the platform. Built into each beam are two high precision stainless steel load cells which are sealed with welded caps to ISO standard IP68. The robust design ensures a long working life and is maintenance free. The high reliability of the loadcells means a lower total cost of ownership and we are able to offer long warranty.

Load cells

All load cells are pre-calibrated in the factory and do not need calibration adjustments during commissioning of the weighbridge. Loadcells are 20,000 kg capacity each. This allows a choice of capacities from 40 tonnes up to 120 tonnes capacity weighbridge.

Choice of Models

There is a wide choice of weighbridge models. The lengths can be from 6 metres up to 30 metres, with widths of 3.0, 3.5 and 4.0 metres available. All platforms are 340 mm high from the ground.

The weighbridge is fabricated in sections so that it is capable of being portable. All parts can be lifted with a forklift truck for ease of handling on site. The surface must be reasonably level for the weighbridge to retain its very high accuracy. The beams are placed on the ground first and then the sections are dropped in place onto the beams. They are held in position with strong Quick Locks. Typical assembly time takes less than two hours.

The signal cables all come with connectors for ease of installation and fast disconnection when moving from one site to another; and the load cell sensors are fitted to the load beams so the relocation of the weighbridge onto a new site is fast and easy.

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Portable Truck Scale
Easy Installation

Weightel™
digital load cell sensors
from 6 tonnes to 30 tonnes capacity
OIML class III Accuracy

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Installation

The Ton-Tel portable weighbridge has been designed to be mounted above the ground with ramps at each end. Above ground installation is simple and eliminates the need to construct a pit and a drain. Ramps are delivered with the weighbridge in steel as part of the construction. No special foundations are required, though the ground should be solid and where there is no concrete, spreader plates will be needed under the load cell positions.

Normal installation on a flat surface takes only one to two hours, depending on which model is selected, and how many sections need to be put into place.

Containerised for transport

The lock together design of the Ton-Tel enables it to be completely packed into a 40 foot container for shipment. The weighbridge is packed at our factory which ensures that everything will be ready when it arrives on site.. This reduces the cost of shipment and ensures that none of the parts get lost on voyage. Every size of weighbridge up to our 21 metres long model fit into one container.

Simple construction on site

The Portable weighbridge is just that. Only a forklift or small crane is needed to place the components in position and lock them together. Each section is easily lifted with a standard fork truck. Once the weighbridge is assembled plug in the cables and switch on. Full instructions are provided.
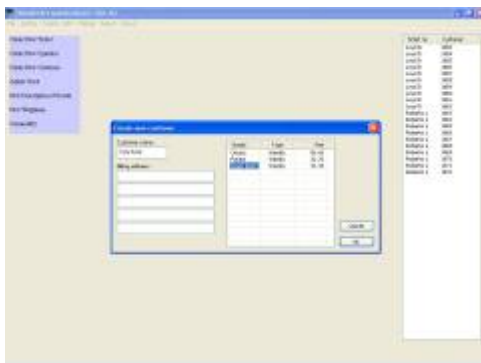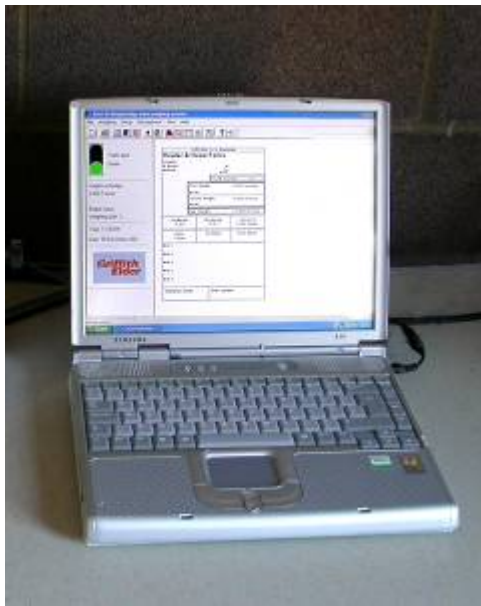
Choice of Recording Equipment

The Ton-Tel weighbridge can be connected to a simple robust portable indicator with tally printer which has the advantage of simplicity and ease. A USB memory stick records every ticket so that they can be uploaded to an office computer and put straight into a spread sheet..

For greater control of vehicles and goods a laptop or desktop computer can be added. The advantage is that all weights are stored and can be downloaded in the office for permanent records and powerful reports to spreadsheet for invoicing and analysis of ticket information.

Ton-Tel Specifications

General Specifications

Load cells   Size 20,000 kg. Other sizes to suit.
Platform   surface painted in marine weatherproof paints.
Maximum Capacity: 40 t, 50 t, 60 t, 80 t, 100 t or 120 tonnes
Maximum strength: 130 tonnes
Graduation: 20 kg or 50kg
Sensitivity   10 kg
Zero tracking   plus/minus 5 kg max
Accuracy   1 part in 3000.
Construction type   Steel platform on load cells.
Operation   Rechargeable battery or mains supply.
Electronics: Microprocessor weigh controller sealed to IP68.
Power required   110/230 volts AC, or 12 volt battery.
Software   Languages: English, French, Arabic, Chinese, Russian.

Environmental specification

Temperature range: minus 30 degrees C to plus 70 degrees C.
Protection: Load cells are protected against ingress of water, fertilizer, petroleum products, and attacks of acid mists. IP68.

Weighbridge surface painted in marine weatherproof paints.

Ton-Tel power supply unit in waterproof housing.

Laptop computer not protected.

Humidity range: Weighbridge: 10 to 100 percent RH

Indicator/printer unit: IP67 when closed.

Dust: Weighbridge: 100 percent protection

Indicator/printer unit: IP67 when closed.

Warranty
18 months from date of shipment any part returned to our works at customer's expense will be repaired or replaced and returned to sender free of charge.

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Ton-Tel™ Truck Scale
Options

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Large Display

A large red LED display (scoreboard) with 120 mm high digits is available so that the truck drivers can see at a glance what their weight is. The display has high visibility even in the brightest sun light.

Kiosk

A weighbridge kiosk can be provided to house the electronic indicator and printer equipment. Usually this will have appropriate windows so that an operator can see the whole weighbridge from the kiosk.

Steel Ramps

Made to suit the system these ramps are both robust and easy to install. Where a weighbridge is being put onto existing concrete without new foundations the steel ramps are a useful way of completing the weighbridge and make moving to a new site a very quick and easy task.

Traffic Lights

A red cross shows the vehicle when to stop and a green arrow shows a driver when to move onto and leave the weighbridge. Traffic lights can be automatically controlled from computer software or can be manned by an operator for ease of traffic management. They are often used in conjunction with the automatic identification systems for unmanned weighbridges.

Automatic Identification

Vehicles and drivers can have their own transponder tags so that they are immediately identified as they go onto the weighbridge. This is useful if the same trucks are returning time after time. Modern tags are electronic and can be in the form of credit cards or key fobs which are identified when they come into proximity of a reader. The distance a tag can be read is usually in the region of 4 metres, so the driver can put a tag in the window and be picked up by the reader.

Winchester Recording System
For Portable Computer Records

When the computer is used outside we provide the whole package in a waterproof portable carry case. The case measures 1.2 metres long by 0.5 metres wide and holds the indicator, computer and printer in one neat and ready to use package.

This is known as the Winchester recording System and it runs from 12 volts DC, suitable to be plugged into a vehicle or operated from a solar panel.

Connection to the weighbridge is by Quick Lock connectors which just snap together so that the whole system can be used out of doors if necessary.
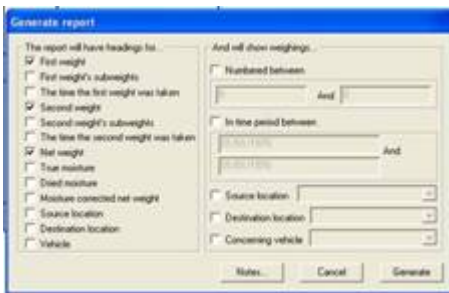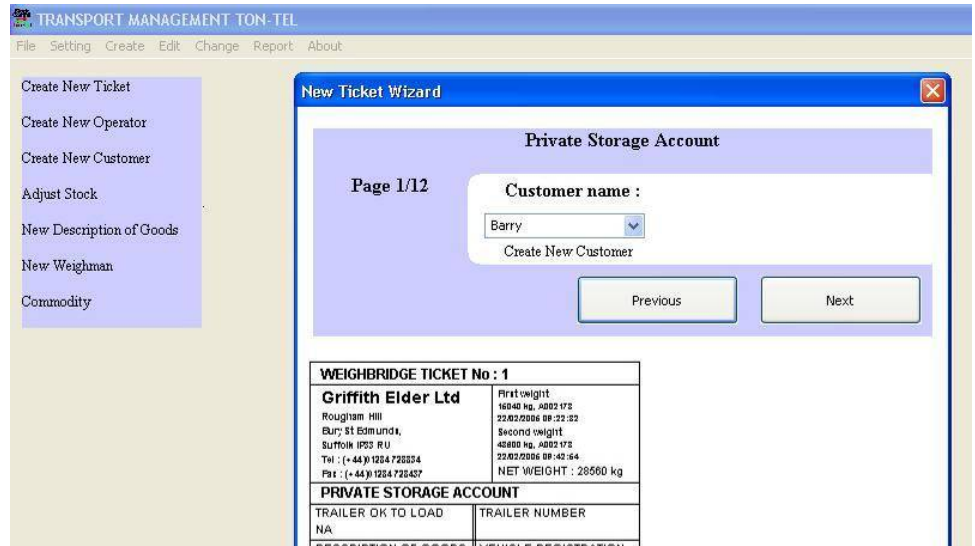
If the internet is available the data from the laptop can be sent back to a Central Database in the same way that a desktop system operates. Alternatively the Winchester Recording System can be unplugged from the weighbridge and taken to an office where connectivity to the internet is available, and from there all the completed tickets can be sent to the Central Database.

A low voltage printer is incorporated in the case so that tickets can be printed out at the weighbridge station.

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Ton-Tel™ Software
management of vehicle movements

The Ton-Tel™ Weighbridge Computer Software is a powerful yet easy to use system for recording and analysing all weighbridge operations. There are two very different software designs, one for management of vehicles in commercial businesses and another for law enforcement which is used for recording of vehicles on the highways, usually associated with over-loading.

Transport Management

The transport management programme monitors goods in and out and can be used to monitor stock levels and record all vehicle movements. The Ton-Tel™ software can be customised to suit individual customer requirements. A number of different ticket options are available, and there are user definable note headings for additional information.

Language Options

The Ton-Tel software is available in English, French, Chinese, Arabic, Russian and Farsi. The language can be swapped from one to another in use, so that tickets may be in more than one language.

Date and time are taken from the computer which is running the software and so it will show in the appropriate format for the locality.

Reports

The Ton-Tel™ software system contains a powerful reporting facility. The operator selects the parameters for the report, and the information to be shown. A typical report might be of all the weighments which went to a particular customer between two dates or all the movements over the weighbridge for the last week.

Information can easily be exported from the Ton-Tel™ programme to other programmes for further data analysis. It is compatible with all spreadsheets. Networking is also possible so that real time weighing information can be seen at another location.

All Weighing operations are automatically recorded on the computer and tickets can be printed off on the computer's printer.

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