TUFNER
WEIGHING SYSTEMS

ONBOARD WEIGHING WIRELESS TECHNOLOGY

WWW.TUFNER.COM

ONBOARD WEIGHING
WIRELESS TECHNOLOGY

ACHIEVE WEIGHING PERFECTION WITH TUFNER

- **OPTIMIZATION OF PRODUCTION PROCESSES**
- **TIME SAVINGS DURING LOADING ANYWHERE**
- **PREVENTION OF VEHICLE WEAR AND MAINTENANCE COSTS**
- **SYSTEMS CAN BE REUSED IN SUBSEQUENT APPLICATIONS**
- **PREVENTION OF OVERLOAD PENALTIES**
- **EASY-TO-USE SYSTEMS WITH SIMPLE MAINTENANCE**

TUFNER WEIGHING SYSTEMS

ONBOARD WEIGHING
WIRELESS TECHNOLOGY

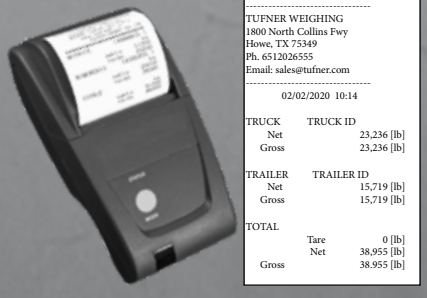
INTEGRATES WITH YOUR CURRENT VEHICLE

Tufner's new onboard system SmartRig can be displayed in-cab mounted terminal or wireless device in your vehicle to monitor and manage the vehicle's various sensors and functions. Through wireless communication, our system provides an innovative onboard weighing system to manage your current net and gross weights. The system also provides individual axle weights, current tire pressures, and sensors to notify the driver of overheating brakes. In addition to temperature and pressure control of the vehicle's tires, there's a wireless rear view safety camera, and a planarity sensor, which is a device that controls the opening of the fuel tank cap.

SmartRig onboard weighing system integrates with Wi-Fi and Bluetooth technology and allows the system to communicate with all the vehicle's sensors without using cables. The data and values processed by the system are displayed directly on a screen in the cab via can-bus, on a smartphone/tablet through an App, in Cloud or directly on the office PC.

CABLE FREE WIRELESS TECHNOLOGY

ONBOARD WEIGHING APP



TUFNER WEIGHING SYSTEMS

ONBOARD WEIGHING
WIRELESS TECHNOLOGY

OUR CUSTOMERS' INDUSTRIES

AGGREGATES

MINING, PORPHYRY AND STONE

CONSTRUCTION

TRANSPORT

AGRICULTURE

WASTE AND RECYCLING

PORT ACTIVITY

LOGISTICS

FOREST ACTIVITY

TUFNER WEIGHING SYSTEMS

ONBOARD WEIGHING
WIRELESS TECHNOLOGY

ONBOARD WEIGHING & SYSTEMS SOLUTION

COMBINATION TRACTOR TRAILER

DUMP TRUCK

MULTI AXLE TRACTOR TRAILER

GARBAGE TRUCK

CONCRETE TRUCK

STRAIGHT TRUCK OR BOX TRUCK

TUFNER WEIGHING SYSTEMS

ONBOARD WEIGHING
WIRELESS TECHNOLOGY

ONBOARD WEIGHING & SYSTEMS SOLUTION

COMBINATION TRACTOR TANKER

MILK TRUCK

ROLL OFF DUMPSTER TRUCK

FLATBED STRAIGHT TRUCK

ARTICULATED DUMP TRUCK

ONBOARD WEIGHING
WIRELESS TECHNOLOGY

INSTALLATIONS

IN THE DRIVER'S CAB

PRESSURE SENSOR

IN THE DRIVER'S CAB

WIRELESS PRESSURE

APP

WIRELESS PRESSURE

TUFNER WEIGHING SYSTEMS

ONBOARD WEIGHING
WIRELESS TECHNOLOGY

NEXT FUTURE... WIRELESS

ONBOARD WEIGHING APP

The onboard weighing app is a new concept of totally wireless weighing which provides a real-time display of the net and gross total weight of the vehicle, directly on Android and iOS devices. Through the App, the entire loading phase is managed easily by smartphones, with the use of a Hotspot device connected directly to the cigarette lighter socket in the cab. Wi-Fi technology enables communication with the wireless sensors positioned on the vehicle suspensions and with the App of the Android or iOS device. New generation technology, which is quick and easy to install, for an advanced competitive onboard weighing system.

FEATURES

- Real time weight reading for net or gross loads and vehicle gross weight (V.G.W.)
- 24 Vcc direct power supply with cigarette lighter socket. Maximum consumption 0.5 A
- Waterproof system, solid construction and capable of tolerating extreme working conditions
- Total safety of the Lanx system since it does not affect any vital part of the vehicle
- Weighing system suitable for air suspensions

ADVANTAGES

- Display of weight always available
- Available for ANDROID and iOS devices
- Wireless on board weighing during loading
- Simple and quick installation
- No fine for overloading
- Reusable system

ACCURACY

•Air suspensions	0 ÷ 1%

TUFNER WEIGHING SYSTEMS

ONBOARD WEIGHING
WIRELESS TECHNOLOGY

THE NEW WIRELESS TECHNOLOGY

NEW WIRELESS SYSTEM

The new wireless system control unit is installed directly in the cab and provides a real-time display of the net, gross, semi-trailer and tractor axle weights, partial weights and with the possibility also of the overloading acoustic alarm. Wireless technology uses a variety of wireless digital sensors positioned on the vehicle's suspensions and has an alphanumeric screen that displays all weight data. This has been planned purposely for clients who intend to equip their fleet with a valid weighing system at an extremely competitive price. The system pays for itself immediately because knowing the weight of the load when you travel means optimizing transport times and economic yield in complete safety.

FEATURES

- Real time weight reading for net or gross loads, vehicle gross weight (V.G.W.) and individual axle loads for both truck and trailer thanks to the new wireless digital sensors
- Partial weight reading function for knowing the exact weight loaded for each customer during the same journey
- 24 Vcc direct power supply. Maximum consumption 0.5 A
- Relay control output for connecting Acoustical/Optical programmable devices
- Waterproof system, solid construction and capable of tolerating extreme working conditions
- Total safety of the system since it does not affect any vital part of the vehicle

ADVANTAGES

- Wireless on board weighing during loading
- Simple and quick installation
- No fine for overloading
- Payload within legal limits
- Reusable system
- Management of different number of semi-trailers

ACCURACY

• Air suspensions	0 ÷ 1%

TUFNER WEIGHING SYSTEMS

ONBOARD WEIGHING
WIRELESS TECHNOLOGY

GLOBAL VIEW IS ITS STRENGHT

The control unit of this system is directly installed in the driver's cab and displays the weight loaded on-board in real-time. Readings are displayed axle by axle, net and gross or partial. It uses a variety of digital sensors positioned on the vehicle's suspensions and displays all data on an easy to read display, without having to push any keys. In addition, weight data can be printed by on-board mini-printer and it can also connect to any satellite system. The system pays for itself immediately because knowing the weight of the load when you travel means optimizing transport times and economic yield in complete safety.

FEATURES

•Real time weight reading for net or gross loads, vehicle gross weight (V.G.W.) and individual axle loads for both truck and trailer
•Partial weight reading function for knowing the exact weight loaded for each customer during the same journey
•24 Vcc direct power supply. Maximum consumption 0.5 A
•Relay control output for connecting Acoustical/Optical programmable devices
•Possibility of printing the weight data using optional printer
•Waterproof system, solid construction and capable of tolerating extreme working conditions
•Total safety of the Lanx system since it does not affect any vital part of the vehicle
•Weighing system suitable for any type of vehicle
•Possibility of data transmission via GPRS

ADVANTAGES

•Convenient on-board weighing during loading
•No fine for overloading
•Protection against early wear of the vehicle
•Payload within legal limits
•Reusable system
•Automatic management of an unlimited number of trailers and semi-trailers

ACCURACY

•Air or hydraulic suspensions	0 ÷ 1%
•Mixed suspensions	0 ÷ 2 %
•Rear Dump Trailer (mechanical suspensions)	0 ÷ 0.5%

The most precise model of our systems

TUFNER WEIGHING SYSTEMS

ONBOARD WEIGHING
WIRELESS TECHNOLOGY

SITE INSTALLATION - COMMERCIAL VEHICLES

TUFNER WEIGHING SYSTEMS

ONBOARD WEIGHING
WIRELESS TECHNOLOGY

A TRUE SOLUTION FOR EACH VEHICLE

FORK TRUCK

SKIDSTER

BACKHOE

FRONT END LOADER

EXCAVATOR

TELEHANDLER

LARGE FORK TRUCK

ARTICULATED DUMP TRUCK

DUMP TRUCK

TUFNER WEIGHING SYSTEMS

ONBOARD WEIGHING
WIRELESS TECHNOLOGY
VISION EVOLUTION

VISION EVOLUTION IN THE DRIVER'S CAB

ANGLE SENSOR ON EXCAVATOR

IN THE DRIVER'S CAB

PROXIMITY SWITCHES ON WHEEL LOADER

ON FORK-LIFT TRUCK

ON PALLET TRUCK

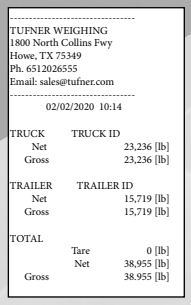
TUFNER WEIGHING SYSTEMS

ONBOARD WEIGHING
WIRELESS TECHNOLOGY

TECHNOLOGY FROM A NEW WORLD

This is a dynamic onboard weighing system, distinguished for its remarkably competitive cost and its user-friendliness, which immediately displays the updated weight of the material being handled. Advanced technology has been used to create an intuitive instrument with all the essential functions, thus providing the ideal solution for weighing loads on front loaders, fork-lift trucks, articulated dumper trucks, and telescopic handlers, with a low investment that can stand up to any comparison. It even allows data printing by means of an optional compact printer in the cab.

PRINTER AND TICKET



TUFNER WEIGHING
1800 North Collins Fwy
Howe, TX 75349
Ph. 6512026555
Email: sales@tufner.com

02/02/2020 10:14

TRUCK	TRUCK ID	
Net		23,236 [lb]
Gross		23,236 [lb]
TRAILER	TRAILER ID	
Net		15,719 [lb]
Gross		15,719 [lb]
TOTAL		
	Tare	0 [lb]
	Net	38,955 [lb]
Gross		38.955 [lb]

FEATURES

- Automatic tare acquirement
- Setting up of the maximum load in two methods
- Last lift zeroing
- Angle sensors or proximity sensors

ADVANTAGES

- Dynamic weighing
- 3.5” Color display
- Excellent value for money
- Small dimension
- User friendly
- Reliable
- Simple installation
- Reusable system

DISPLAY

- Partial weight
- Total weight
- Number of cycles
- Type of material

AUTOMATIC FUNCTIONS

- Storage capacity until two different calibrations
- Storage capacity until 10 different products
- Stand-by function
- Multi-material function
- Diagnostic

PRINTER (OPTIONAL)

- **Paper roll:**

-Loaded product
-Progressive number of printed tickets
-Date and time
-Printing of the single load
-Total of each load
-Conversion in m3
-Multi-material printing

TUFNER WEIGHING SYSTEMS

ONBOARD WEIGHING
WIRELESS TECHNOLOGY

ONE STEP AHEAD

This is a dynamic, onboard weighing system for earthmoving and logistical vehicles. It is the ultimate innovation in onboard weighing systems with its large color graphics display for real-time viewing of data, a user-friendly icon menu and navigation wheel system with a central confirmation button for browsing through menus. It allows data export and transmission as well as the printing of data to ensure continuous updating and management of loading activities. Connection to an external camera is a valuable aid during vehicle maneuvering operations and guarantees greater safety with the advantage of using a single display. The dynamic weighing is carried out during the movements of the vehicle without stopping the lifting operation.

PRINTER

TRANSMISSION DATA CABLE

TRACKING DATA

FEATURES
- Vehicle plates, haulier, destination and purpose of transport
- Code and description client
- Code and description material
- Automatic tare acquirement
- Setting up of the maximum load for each vehicle
- Last lift zeroing or dosage
- Coding and description truck
- Coding and description project
- Coding and description drivers

ADVANTAGES
- Dynamic weighing
- Large colour display
- Icon based menu
- Wheel keyboard for navigation
- Various interfaces
- Management of last bucket
- External camera
- Reusable system
- Transmission data

DISPLAY
- Partial and total weight
- Unit of measure
- Number of cycles
- Name or client code (1.000)
- Name or material code (200)
- Vehicle's plate number

AUTOMATIC FUNCTIONS
- Storage capacity until two different calibrations
- Weighing height automatic variation on the excavator version
- Memory Card SD

PRINTER (OPTIONAL)
- **Paper print roll or ticket model:**

-Company's heading with address
-Products and name of the loaded client
-Driver's name
-Date and time
-Plate number of the vehicle loaded
-Project code
-Printing of the single load
-Total of each load
-Summary organized by different material

TUFNER WEIGHING SYSTEMS

ONBOARD WEIGHING
WIRELESS TECHNOLOGY

ON THE ALERT FOR A VISIBILE WEIGHT

Onboard weighing for fork-lift trucks has become more and more essential over the years; it is useful during the loading process such as packing-list on storage and stock control. It provides economic weight calculations of the materials, optimization of the means of transport stowage, the storage of materials or to define pallets stack. Our weighing system provides to carry out the updated static weighing in real-time with the system unit set in the cab.

PRINTER AND TICKET

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1800 North Collins Fwy
Howe, TX 75349
Ph. 6512026555
Email: sales@tufner.com

02/02/2020 10:14

TRUCK	TRUCK ID	
Net		23,236 [lb]
Gross		23,236 [lb]
TRAILER	TRAILER ID	
Net		15,719 [lb]
Gross		15,719 [lb]
TOTAL		
	Tare	0 [lb]
	Net	38,955 [lb]
Gross		38,955 [lb]

FEATURES

- Addition / Subtraction of partial weight to the total weight
- Setting up of the maximum load
- Diagnostic menu
- Error adjustment
- Setup menu with pin code

ADVANTAGES

- Excellent value for money
- User friendly
- Small dimension
- Suitable for all capacities
- Simple autonomous installation
- Reusable system

DISPLAY

- Partial weight
- Total weight
- Unit of measure

AUTOMATIC FUNCTIONS

- Storage capacity and selection of driver or material

PRINTER (OPTIONAL)

- **Paper print roll:**

-ID fork-lift or fork-lift's plate number
-Driver's name or type of material
-Date and time
-Total weight with unit of measure

ONBOARD WEIGHING
WIRELESS TECHNOLOGY

ONLY FOR HEAVY DUTY WORK

The control unit of the system is directly installed in the driver's cab and displays weight loaded on-board in real-time. It allows a reading axle by axle, net and gross or partial. Moreover, it allows managing the materials moved and to select the operators or the destination. It uses digital sensors positioned on the vehicle's suspensions and displays all data on an easy to read display, without having to push any keys. All-round trips are automatically memorized without the requirement for operator intervention. The internal database allows the display of reports for each round trip, including material, operator or destination, date, time and weight data, as well as daily, weekly and monthly reports with individual and overall totals for all loads transported. All weighing data and individual reports can be transmitted via GPRS or printed out on a specially designed printer located in the cab. The USB reader connects with the HD system allows saving the weights made through a USB Flash Drive device. The system pays for itself immediately because knowing the weight of the load when you travel means optimizing transport times and economic yield in complete safety.

PRINTER

TRANSMISSION DATA CABLE

TRACKING DATA

USB READER

FEATURES
- The display in the driver's cab
- Digital pressure sensors ES160 or ES400 on each suspensions
- External optical devices

ACCURACY
- Hydropneumatic Suspensions

ADVANTAGES
- Dynamic weighing
- Large colour display
- Icon based menu
- Wheel keyboard for navigation
- Various interfaces
- Management of last bucket
- External camera
- Reusable system
- Transmission data

TUFNER WEIGHING SYSTEMS

ONBOARD WEIGHING
WIRELESS TECHNOLOGY

SITE INSTALLATION - EARTHMOVING & LOGISTICS

ONBOARD WEIGHING
WIRELESS TECHNOLOGY

TRACKING DATA

The highly integrated device that can be used to monitor your payload, to track your vehicles and to managing your weighing data with reports directly in your pc, smartphones or tablets. The included GSM/GPRS module and a high sensitivity GPS/GLONASS receiver allows managing vehicle access and several types of features. The extreme flexibility of the OTD device makes it possible to use for different applications. It is possible to create customized reports based on the weighing data collected.

FEATURES
- Weighing data management
- TPMS data management
- Anomaly detection
- GPS tracking with maps
- 24/7 continous monitoring
- Cloud data collection
- Web-based portal

TUFNER WEIGHING SYSTEMS

ONBOARD WEIGHING
WIRELESS TECHNOLOGY

CORRECT PRESSURE... LONGER LIFE!

TRACKING DATA

This pressure and temperature control system allows direct and constant monitoring of the condition of the tires on your vehicle. The in-cab display not only receives information about the tires on the truck but also obtains data for the connected trailer, thanks to the installed Smart Booster; this allows easy automatic readings for multiple trailers with no need for any additional equipment. The TPMS system gives drivers the assurance of always having the right tire pressure, thus reducing excessive fuel consumption and keeping the vehicle under proper control. The display can also be connected to a GPS system to send any data or alarms detected by the TPMS device to the office.

ADVANTAGES

- Extensive alarm and configuration functions
- Display connects to continuous power to ensure full-time monitoring
- Entire system designed to suit all types of commercial vehicles
- Monitoring of up to 38 separate tires
- Smart Booster allows long-distance radio communication
- Hand Tool and Smart Booster can communicate to configure and view the sensors installed on the trailer
- System easy to use and set up
- Possibility of data transmission via GPS

7 GOOD REASONS TO INSTALL

- Protection from premature tire wear
- Prevention of tire failure through detection of even the slightest damage
- Reduction of fuel consumption and maintenance costs for the company
- Reduction of exhaust gas emissions to help protect the environment
- Reduction of wear and damage to shock absorbers, suspension and other vital parts of the vehicle
- Constant monitoring of tire pressure for improved driving comfort
- Control of braking to help reduce the possibility of accidents

TUFNER WEIGHING SYSTEMS

ONBOARD WEIGHING
WIRELESS TECHNOLOGY

INSTALLATIONS

DISPLAY ST IN THE DRIVER'S

EXTERNAL SENSORS TPMS

DISPLAY DIN IN THE DRIVER'S

SMART BOOSTER ON THE TRAILER

DISPLAY IN THE DRIVER'S CAB

EXTERNAL ANTENNA

TUFNER WEIGHING SYSTEMS

Get in touch.

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