

WEIGHBRIDGE PROPOSAL

PROPOSAL

FOR A COMPLETE 50 TONNES MODULAR STEEL WEIGHBRIDGE WITH CAD DIGITAL LOAD CELLS.

| Characteristic | Characteristic Value |
|-----------------------|--|
| Nominal Capacity | 50,000kg * 10kg |
| Scale Model | HI-A Model Truck Scale |
| Scale Dimension | 3m * 14m |
| Country of Origin | Turkey |
| Indicator Model | ECI Digital Modbus |
| Indicator Program | SP-WIN Standard software |
| Loadcell Type | CAD Digital Loadcells |
| Legal for Trade Satus | Y/AY=Legal for Trade |
| Indicator Language | English |
| Division Type | One step division |
| Foundation Plan Type | Standard Plate Type (Pitless) |
| Foundation Plan Code | 50t 3*14m Hippo-A Standard plate used foundation |
| Steel Construction | Unique orthotropic V beam structure |



TECHNICAL SPECIFICATION

a. Steel Deck



STS Hippo is a modular steel weighbridge with pit-mount and surface-mount options. Designed to meet European standards in its respective industry, Hippo offers a strong static build which is suitable for use in every sector where legal loading and weight measurement is required.

STS Hippo weighbridges feature a modular structure with a width of 3 m and are produced in various lengths from 4 m to 24 m with 2m intervals. Thanks to its modular structure, Hippo can be easily assembled and is suitable for international container shipping. Hippo steel weighbridge is designed not only to provide robustness and long-term durability, but also to offer easy assembly, easy handling, easy cleaning and ideal height.

STS Hippo vehicle scales are equipped with CAD Digital load cells and EL rubber mounting kits as well as ECI microprocessor-based Digital electronic weighing terminals.

Key Features

- Rubber pads
- Multiple load cells
- Low profile
- Dust covers
- Steel cable housings
- Lightning protection
- Assigning incremental sequence numbers to every weighing ticket
- Memory capacity to store 100,000 weighing operations
- Capability to recognize vehicles of fixed tare values 10 user-definable ticket data fields
- Detailed reporting between given dates
- Ability to edit ticket and report formats
- Access to any data based on given criteria
- Printer connection
- Label and report printing
- Legal metrology approval
- CE certificate
- Unique orthotropic V beam anti deflection design.

b. Advanced CAD Digital Load cells



Model CAD has double sockets, cable connection is done by jumping from one load cell to another one. It does not require a junction box so it is very easy to change in case of fault.

Model CAD load cell, is based on the shear force principle to measure forces in the compression direction. It has been developed for use in high capacity, electronic weight and force measurement applications in industrial environments. Thanks to its' perfect and rugged body, it offers high resistance to side forces and overload conditions.

Stainless steel body is resistant to corrosion. CAD load cells are suitable for heavy industrial conditions and chemical environments. It finds application in high capacity vehicle scales, platform scales, tank weighing systems and process weighing applications.

When compared to other brand digital load cells, the most important advantage of CAD load cells is that it bears an electronic angle meter inside. With this feature, the technician is alerted by colored LEDs for proper assembly during installation.

Main problem in truck scales is side forces. Platform elongation due to thermal expansion of temperature differences between summer and winter change and platform deformation due to load distribution causes errors in measurement. In both cases, the load cells which are placed perpendicular to the ground become awkward and may cause measurement error. Thanks to the patented angle compensation Technology, the vertical deflection angle of the load cell is detected via sensors to ensure an accurate weight measurement.

CAD load cells are 80% more resistant to side forces than other load cells working with column type principle. Particularly, the major

Key Features;

- Certified to OIML R60 standards
- Welded hermetic sealed body
- %100 resistant to side forces
- %300 resistant to overload
- IP68 industrial protection
- Lightning Protection
- Installation angle compensation
- Modbus communication
- Automatic corner calibration from indicator
- Measurement error detection
- 24 bit A/D converter

c. **ECI Digital indicator**



ECI Digital Weighing Indicator is designed for weighing with digital load cells and to be used in vehicle scales. There are two different models of ECI Digital: designed for Modbus or Canbus output digital load cells. Although ECI is designed for panel use, there are optional casings for colon or desktop use as well. ECI indicates the weighing process clearly, via its various warnings and graphics on IP65 enclosure-rated front panel touch screen and new bright graphic screen. With a standard mounted USB port; ECI offers free firmware update, backup and reporting functions.

Features;

- Weighing program with digital load cells
- Angle correction function when used with CAD series digital load cells
- Faulty load cell warning
- Weighing program with digital load cells
- Communication with load cells via Modbus or Can Bus protocols Indicator, platform scale or vehicle scale modes
- Adaptive, indexed menu system
- Easy connection with connectors (Solder-free)
- 1600 Hz measurement / 800 Hz data output rate
- USB reporting / update / backup / calibration backup
- Possibility of moving calibration data to other devices
- Multi-language option resolver multi-frequency vibration filtering technology
- Easy calibration (mV, factory, coefficient, digital)
- Intelligent plug and play type option cards and modular expansion
- Galvanic isolated communication docks
- Internal thermometer
- Service menu (self-diagnostic)
- Printer support
- USB, RS232 serial communication and external display output

d. **SP-WIN management software (VGM COMPLIANT)**

Explanation;

SPWin Vehicle Weighing Application was prepared with our previous experience and the demands of our customers. Not only providing standard expectations SPWin meets special demands such as flexible reporting and easy adjustable report formats. During weighing, storing photos of the vehicle with a camera and displaying within the record history is among the many outstanding features of the application.

Properties;

| | SP WIN | SP WIN PRO |
|---|--------|------------|
| Remote Display | + | + |
| Message Panel | - | + |
| Traffic Lights | - | + |
| Mechanical Barrier | - | + |
| Optical Security Ring | - | + |
| Network | - | + |
| Photo | - | + |
| Button Case (kiosk) | - | + |
| Printer(kiosk) | + | + |
| Language (TR, EN, BG, RU, GE, AZ, FR, DA, SR) | | |
| Vehicle Define | - | + |
| Plate Define | - | + |
| RFID | - | + |
| Card Reader | - | + |
| Barcode | - | + |
| Integration and Data Connection | | |
| Web Service(XML) | - | + |
| E-mail | - | + |
| SMS | - | + |
| VGM report | + | + |

*** Features indicated with "+" are priced separately. (Excluding language option and web service)