

## **Sensors & Systems**

**Industrial Solutions Pvt. Ltd.**

Mfg. of Industrial & Commercial Digital Scales & Weigh Bridges

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🌐 Website : [www.elweigh.com](http://www.elweigh.com)



## INDUSTRIAL AND COMMERCIAL PLATFORM & TABLE TOP SCALES



**Bench Weighing Scale**

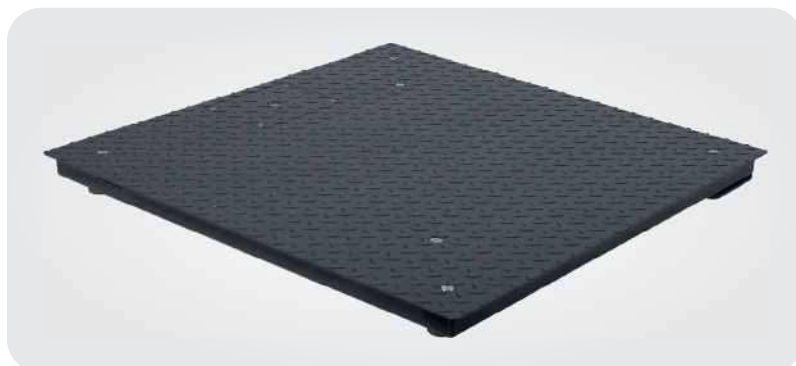


**Excellence in Industrial Scales**



### Feature

- Small to bulk material handling With MS/ SS Pan
- Built in 6volt battery backup
- Power required : 230AC Volt
- Bright Red 7 segment display
- Customized Sizes are available as per specific requirement.



### Optional

- Rs 232, 485 Interface
- Bluetooth Interface
- 4-20mA Amp Interface
- Extra Display
- Flameproof enclosure



### Specification

Model	Platform Size	Capacity (Kg)	Accuracy (g)
EWC Table Top	200 x 250	1/2/5/10/15/20	0.1/0.2/0.5/1/1/2
	240 x 290	30	5
EWC-SS Bench Scale	350 x 275	5/10/15/20/30	0.5/1/1/2/5
EWP Platform Scale With Single Load Cell	400 x 400 (SS)	50/60/100	5/10/10
	400 x 400 (MS)	50/60/100	5/10/10
	500 x 500 (SS)	100/200	10/20
	500 x 500 (MS)	100/200	10/20
	600 x 600 (SS)	100/200/300	10/20/50
	600 x 600 (MS)	100/200/300	10/20/50
	750 x 750 (MS)	200/300/500/600/1000	20/50/50/100/100
EWP Platform Scale With Four Load Cell	900 x 900 (MS)	500/1000/1500/2000	50/100/200/200
	1000 x 1000 (MS)	500/1000/1500/2000	50/100/200/200
	1200 x 1200 (MS)	1000/1500/2000/3000	100/200/200/500
	1500 x 1500 (MS)	1000/2000/3000/5000	100/200/500/500



## FILLING SYSTEMS & ROLLER PLATFORMS

### FEATURES

- For easy movement of material
- Smooth dust resistant roller and ramps with bearings
- Optional Dummy platform with rollers/  
Conveyor on either side of platform
- MOC : MS/SS
- Capacity from 30 kg to 500 kg
- Bulk Material Handling: Capacity 1000kg to 5000kg
- Load cells : Single & Multiple
- Automatic counting of recording Connectivity with Mobile  
& Cloud Data Storage

### APPLICATIONS

Weighing and manual conveying of Cotton bales, Liquid drums, cans, tin and cartons

### SPECIFICATION

Platform Size	500 x 500 mm	600 x 600 mm	750 x 750 mm	1000 x 1000 mm
No. of Rollers	6	7	8	10
Pitch(mm)	90	95	100	85
O.D. (mm)	50	50	50	75

Model	Capacity	E=	No. of Load Cells	Load Cell Capacity
EWP-R1LC	500kg	50g	1	1000kg
EWP-R-4LC	500kg	50g	4	500kg
EWP-R-1LC	1000kg	100g	1	2000kg
EWP-R-4LC	1000kg	100g	4	500kg
EWP-R-4LC	2000kg	200g	Four	1000kg
EWP-R-4LC	5000kg	500g	Four	2000kg



## CHECK WEIGHING SYSTEMS



Check Weighers are used in various industries such as the food, pharmaceutical industry, fertilizers, Cement for checking product weight, completeness and other applications.

**EL-WEIGH** offers a wide variety of individually configurable Check Weighers. Customized solutions can also be offered for individual requirements. The Check Weigher product portfolio offers a wide range of Check Weighers from in-line Check Weighers and end-of-line Check Weighers to combinations of Check Weigher and metal detector.

In principle, a distinction must be made between dynamic and static Check Weighers: Static scales are table or floor scales on which products have to be placed manually and the scale determines the period of time when it has reached a weight estimation. This leads to highly accurate weighing results, however, this procedure can only be carried out on a random basis. You can find more information on this category of products here.

### For High Speed & High Accuracy On Line Dynamic Weighing

Check Weigher **EL-WEIGH** uses the state of the art technology Load Cell to achieve greater accuracy in dynamic weighing high speed. The system provides 100% online weighing, ensuring compliance with international standards of pharmaceutical, food, chemical and cosmetic industries. Check Weigher **EL-WEIGH** also improves production line profitability through significant reduction in product – give – away. The entire system is made from SS and designed for easy removal for cleaning purposes.



## COIL WEIGHING SYSTEM



Our range of Coil Weighing systems are a heavy duty platform with double ended shear beam loadcells for the ultimate strength. Manufactured to suit your application in standard or customise sizes to suit your applications, supplied complete with weighing terminal with remote Jumbo displays (100mm) for ease of viewing if required.

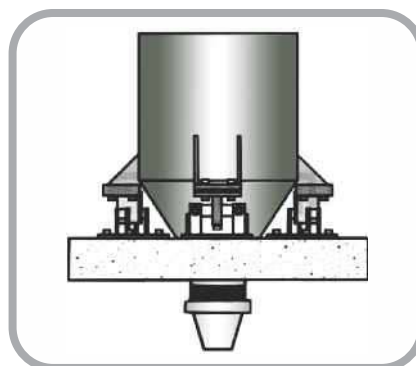
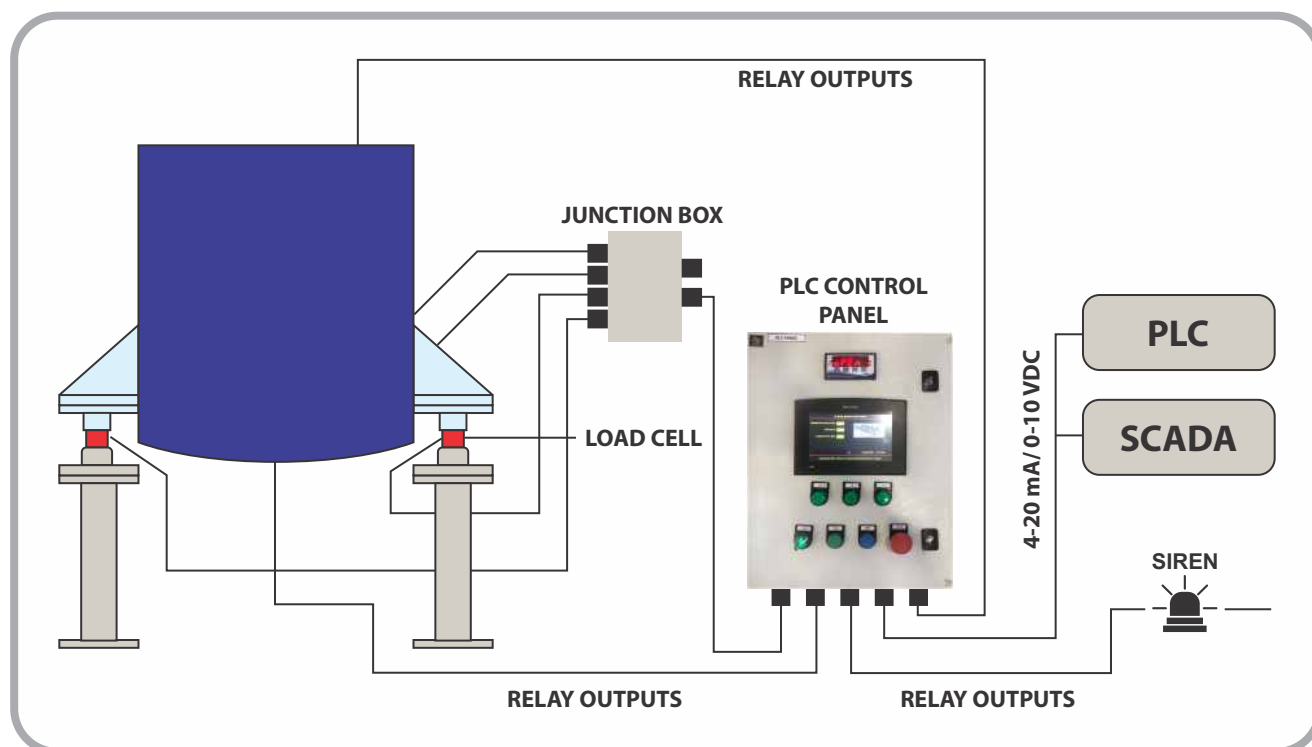
### FEATURES:

System works on moving load point concept - capable to withstand dynamic forces, high lateral forces, shear stress & bending effect

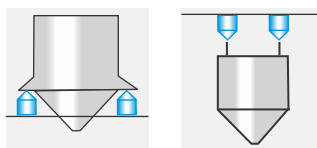
- Weighing system can be installed in the existing production line
- Weighed data can be fed to data management software to generate production report and automatic label printing.
- Standard or customise sizes are available to suit your exact requirements.
- Fitted with 4 double ended shear-beam OIML approved load cells each with protection against surge, dust rated at IP66 to IP68 depending on your application.
- 16 mm thick top plate
- Heavy duty "I" Beam Construction
- Optional Features:
  - Bar/QR Code scanner
  - Direct connectivity with your SAP/ERP.
  - Removable "V" Deck Polyurethane protective wear pads.
  - Optional Android Application to store data like Coil No., Shift no., Date & time on cloud & also in offline mode.

<b>Application</b>	: Steel & Aluminium Industry
<b>Capacities Available</b>	: 5t to 50t
<b>Sizes</b>	: 2mx1.5m, 2mx2m, 3mx3m

## SILO / HOPPER / VESSEL / TANK WEIGHING SYSTEMS







We have specifically developed a range of OIML and NTEP approved load cells, weighing assemblies and instrumentation/electronics for accurate measurement during storage, loading or unloading of bulk solids and liquids.

For communication with external systems, several different protocols are available. By installing a silo, tank, hopper, bin or bunker on top of load cells, the weight of the contents can be determined (in kilograms or tonnes) with a very high accuracy (from approximately 0.1%) and easily passed to external data systems.

Silo, tank, hopper, bin or bunker weighing systems are generally used to determine the amount of material emptied into a truck and/or for inventory management. It is often very important to know the amount of material stored in a silo at any time.

Typical materials that are stored in silos/tanks/hoppers:

- Food and drink ingredients, e.g. wheat, flour, glucose syrup, palm oil, grain, ethanol, fruit juices, edible oils such as olive oil etc.
- Plastic pellets
- Biomass pellets
- Chemical/Pharma Industries
- Fertilizers
- Minerals and mined products, e.g. charcoal, sulphur, nickel, copper, iron ore
- Paint
- Concrete and cement
- And many others...

A Tank/silo/Hopper/Vessel Bin weighing system contains three or four load cells, each with a weighing mounting assembly, a Load Cell summation box(Junction Box) and a Weighing Terminal or transmitter. The weighing module ensures that the correct amount of vertical load is applied to each load cell, and ensuring repeatability of its Load Cell output. All the load cell cables are terminated in Load Cell Summation Box/ junction box joins the wires from the individual load cells and averages the (mV) signals from the load cells to create a combined mV output that is sent to the input terminal of the weight terminal or transmitter with the minimum possible level of electrical noise. This, in turn, will have several communication options to send the weight to a PLC or PC.

The weighing system can be calibrated by filling the silo/tank/Bin/Vessel/Hopper with a known weight of the stored material, placing or hanging certified test weights on the silo, or We have pre calibrated device from which you take reference & calibrate the system.



We have the experience to provide expert guidance.




## AUTOMATIC BALE WEIGHING & COUNTING SYSTEM

Sensors & Systems Industrial Solutions Pvt.Ltd., popularly known as by its brand was founded in 1996 by team of Entrepreneurs to provide Solutions & Services to almost all type of industries. We have been working for Ginning Industries from last 25 years of dedicated services. Due to our valued customer's support & faith we are able to develop some unique products for this industry, some of our unique products are,



1. Weigh Bridges with integrated Camera, Tally & Mobile Android App. 
2. On line seed Weigh System
3. Oil Cake Weighing system
4. Oil Weighing/Tank/Barrel Weighing System &
5. Automatic online Bale Counting & Weighing System integrated with Mobile Android App. 

### KEY FEATURES :

1. Records Weight & Count in fully Automatic as well as manual mode also.
2. Works in Off line as well as online mode, when connected to network all data gets uploaded to cloud server.
3. Pen Drive back up facility available, Reports can be downloaded in  format, having Shift wise, heap wise, grade wise reports.
4. This can be integrated with our MIS (Ginning) software.

## INDUSTRIAL CRANE WEIGHING SYSTEM

- **Battery Capacity :**  
11.1 V 5200mAh Battery
- **Battery Charger :** 12V 2A Charger
- **Battery Indicator :**  
7 Stage Battery Status Indicator
- **Battery :** Lithium Ion
- **Measurement Resolution :**  
Sigma Delta ADC with 24 Bit resolution
- **A/D Output Sensitivity :**  $1.0 \pm 0.1$  mV
- **Sampling Speed :**  
10 Samples per second
- **Load Cell Excitation :** 5V DC
- **Power Saving :** Display only when readings are stable to save Battery.
- **Keyboard :** Wireless RF Keypad with 4 buttons (Range: 80M).
- **Additional Display :** Display using Zigbee Technology (Range: 1.5KM Line of Sight).
- **Display :** Large Display  
228 x 56mm  
Display (1.8" / 45 mm FND x.
- **Environment :** Operating temperature: 0° to 55° Celsius.
- **Humidity :** Up to 95% RH Non-Condensing.
- **Remote Display :**  
Jumbo Display Size :  
100mm/4" Six Digits.
- **Android App :** Interface  
Android EL-WEIGH app,  
Bar Code/QR scanning ,  
Data on Cloud.
- **Bluetooth :** Yes
- **SAP/ERP Integration :** Yes



MODEL	CAPACITY (M.T.)	RESOLUTION (Kg)	REPEATABILITY (Kg)	DISPLAY	MOC
EWC 500k	0.5	0.1	0.2	LCD	ABS PLASTIC
EWC 1T	1	0.2	0.5	1" LED	Mild Steel
EWC 2T	2	0.5	1	1" LED	Alum. Die-Cast
EWC 3T	3	0.5	1	1" LED	Alum. Die-Cast
EWC 5T	5	1	2	1" LED	Alum. Die-Cast
EWC 10T	10	2	5	58mm	Alum. Die-Cast
EWC 15T	15	5	10	58mm	Alum. Die-Cast
EWC 20T	20	5	15	58mm	Mild Steel
EWC 30T	30	10	20	58mm	Mild Steel
EWC 50T	50	20	50	58mm	Mild Steel

\* STC-500K do not have re-chargable battery option & RFremote. Display Type : 20mm LCD

\* STC-1T do has only one re-chargable battery option.

### Optional Accessories

Wireless Display • Re-Charge Battery • Wireless Indicator



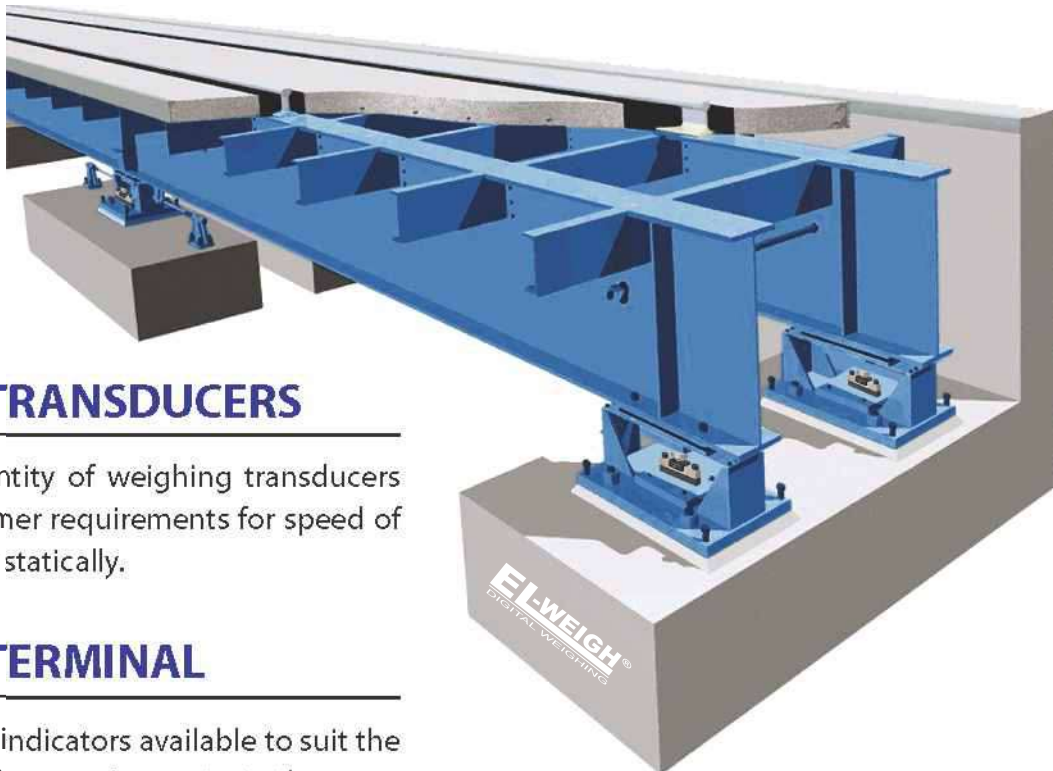
Wireless Display



Printer

## RAIL STATIC WEIGHING SYSTEM

We are manufacturers of Rail Static Weigh Bridges for all types of Railway Wagon approved by Indian Railways. Being a Static Weigh Bridge they are more reliable & accurate in Weighments. In our system you can get individual axel weight, Complete Wagon Weight. Our systems are suitable to take weighments of Coal, Cement, Fly Ash, Food Grains, System is suitable for Bottom opening wagons also. It can be integrated with PLC to control filling targets.



### WEIGHING TRANSDUCERS

The type and quantity of weighing transducers depends on customer requirements for speed of weighing, accuracy statically.

### WEIGHING TERMINAL

There is a range of indicators available to suit the most simple weighing requirements to the more complex integrated and fully PC controlled system.

### PC SOFTWARE

Our windows based software packages capture data for reporting purposes and archives it. Using these packages, reports can be provided, including Wagon loads, train consist, tare, gross, net and wagon type. The software can also be integrated with Android based mobile Cloud base app.



## BAGGING SYSTEMS

### INDUSTRIES

- Grain
- Chemicals
- Refractories
- Cement
- Putty
- Any Other

### SKILLS

- Design
- Development
- Detailed Engineering.
- Manufacturing
- Piping
- Insulation
- Elec. Control Panels.
- Plc Control Panels
- Plc Programming.
- Vfd
- Weighing Systems
- Conveying Systems
- Software

### AUTOMATIC BAGGING SYSTEMS



**JUMBO BAGGING SCALE**



**BAGGING SCALE**

We have expertised the area of Automatic Bagging Systems by means of our innovative attitude, highly experienced manpower & state of art facilities. Starting way back in year 2002, we have installed Automatic Bagging systems mainly for Grain & Chemical Industries.

Having sound manufacturing facilities, we are able to deliver you the entire system on turnkey basis.

We provide the Bagging system to match your requirements. These are tailor made to suit your requirements. From 1 Kg small bags to 1000 Kg Big Bags, we have bagging machines for all ranges.

The greatest advantage with us is that you have to deal with only one supplier, who delivers you all the facilities under one roof.








Weighing systems being our core competency, our batch weighing systems always deliver perfect output.



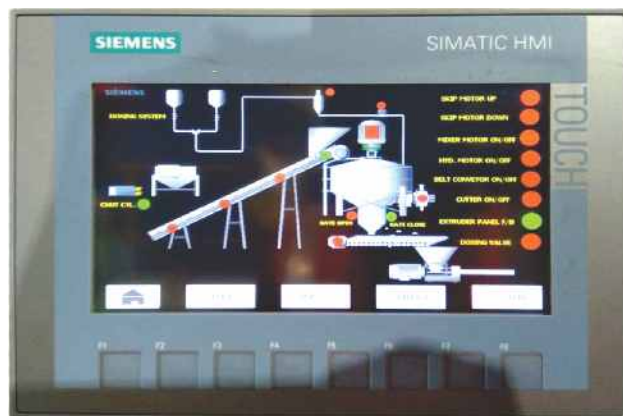
## BAGGING SYSTEM SPECIFICATIONS

- Net/Gross Weigher along with PLC Control Panel.
- Net/Gross Weigher with Digital High Speed ADC and Thames make Load Cell best.
- Twin Weigher.
- Net multiple Weigher upto 1 Ton Capacity Bags.

Elweigh Offers fully automatic Bagging System in sequence of lessing, weighing filling, conveying, stitching and stacking. in case of open mouth bags. We undertake supply of Automatic Weighing and Bagging System along with turnkey supply of material handling to suit customers requirement including storage Silos/Hoppers/Conveyors, Bucket Elevators, Truck Loaders Stitching Machines.

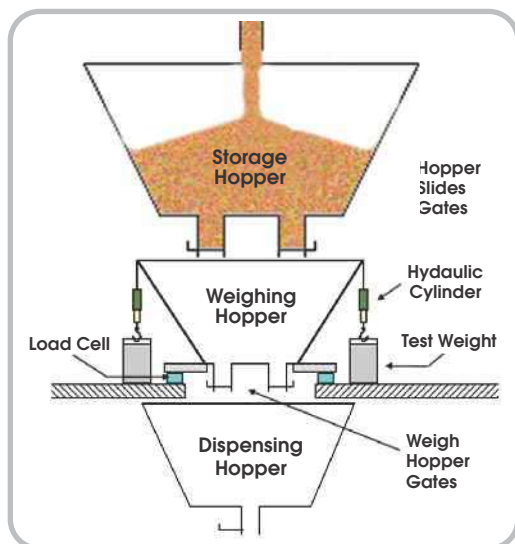
	Types of Feeding	Material
	Screw Conveyor	Granuels
	Vibro Feeder	Any Type of Material
	Slide Gate	Fine Powders
	Cumshell gate	Refractory Powders
	Flap Gate	DOC Cotton Seeds
	Butterfly Wall	Any Type of Material except stones
	Belt Conveyor Feeding	For all Type of Free flowing Material

## BATCH WEIGHING SYSTEM



We have expertised the area of batch weighing systems by means of our innovative attitude, Highly experienced manpower & state of art manufacturing facilities. Starting way back in 2002, we have installed many Batch weighing systems mainly for Ink, Carbon, Refractories & other industries. Having sound manufacturing facilities, we are able to deliver you the entire system on turnkey basis. We have successfully completed Batching projects for Indian (Thermit Welding), Miraj Dry Mix Putty, Bombay Well Print Inks, RSP, Calderys, Elkem South Asia & many other process industries. In both cases we have developed complete system for taking required raw material from storage Tanks as prescribed in the recipe, Heating, Mixing, Blending of the material, Producing final output (Finished Product) & packing. The greatest advantage with us is that you have to deal with only one supplier, who delivers you all the facilities under one roof. Weighing systems being our core competency, our batch weighing systems always deliver perfect output.

## ON LINE COAL/ASH/GRAIN WEIGHING SYSTEMS



The grain is weighed in a bin called the "Weighing Hopper," which is suspended on load cells. The load cells generate an electrical signal proportional to the weight they support. A device called a "Weight Indicator" supplies power to the load cells, sums their output, and produces a digital signal which represents the combined weight of the grain and weigh hopper. The flow of grain into or out of the weigh hopper is controlled by slide gates. System saves data on Computer & the output of the scale indicator, subtracts off the weight of the hopper itself, and operates the gates. The scale is shown going through its normal weighing cycle. The weight of the empty weigh hopper (the TARE weight) is measured with the upper Storage hopper/Silo and weigh hopper gates closed. The scale indicator sends the tare weight to the scale control PLC Panel, which waits until the weight readings are stable, showing that the weigh hopper is not moving and grain is neither entering nor leaving the weigh hopper, and records the tare weight. During this time, grain being carried to the scale accumulates in the upper storage hopper/Silo. The storage available in the upper hopper keeps the elevator from having to constantly stop and start its conveyors.

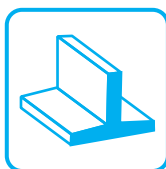
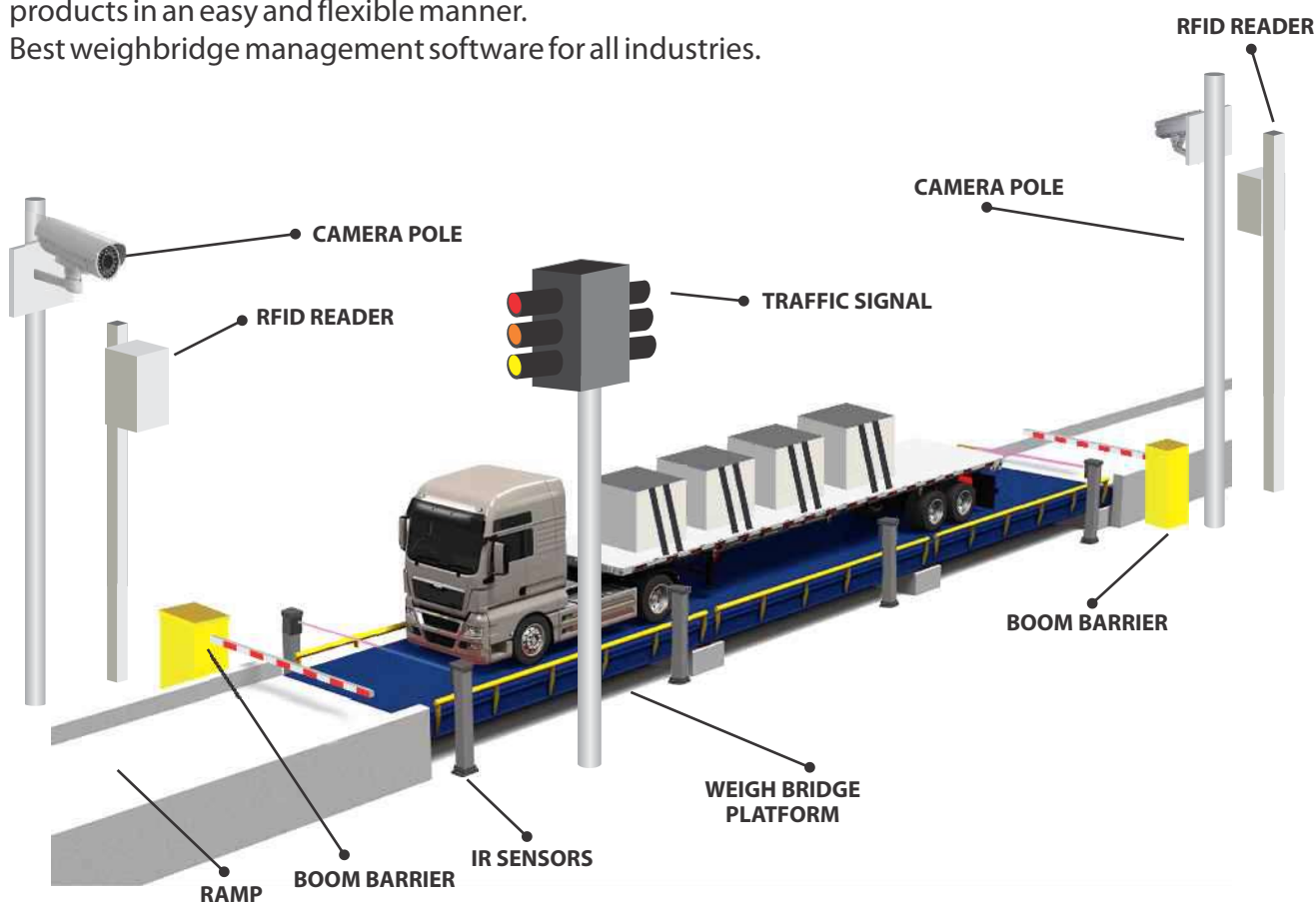
After the scale control computer has recorded a valid tare, it opens the upper hopper gates to allow grain into the weigh hopper. The indicator continually sends weight readings to the computer, which closes the upper hopper gates when the weight passes a pre-set cutoff value. The PLC again waits until the weight is stable and records the weight of the grain and hopper combined (the GROSS weight).

After recording a valid gross weight, the scale control computer opens the weigh hopper gates. Grain drains rapidly into the lower hopper, which normally is simultaneously discharging to a duct or a conveyor. The lower hopper discharges the grain at a slower rate than the weigh hopper, preventing it from overloading the conveyors downstream. When the weight readings from the indicator go below a pre-set lower cutoff value, the PLC closes the weigh hopper gates and records another tare. Then the cycle continues. The net weight of the grain is the difference between the gross and the tare. When a scale is receiving inbound grain, the control PLC takes a gross weight and subtracts the preceding tare weight to obtain the net weight. This gives the true net weight received, because any grain already in the weigh hopper at the beginning of weighing is subtracted out and not counted. When the scale is weighing outbound grain, the PLC takes each gross and subtracts the following tare. This gives the true net weight of grain shipped, because any grain remaining in the weigh hopper at the end of weighing is subtracted out and not counted.

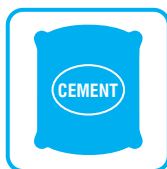
## INTEGRATED UNMANNED/ MANLESS WEIGH BRIDGE SYSTEM

**EL-WEIGH** is leading manufacturer & Service for UWS. Unmanned Weighbridge Systems are a stand-alone system which allows 24x7 weighing operations without the need of any operator. With the use of system's user-friendly software, it can be totally operated by the Vehicle driver which in turn less operational cost and high efficiency in the entire process. Unmanned weighbridge systems are designed to manage and track the critical information created at the time of weighing and label products in an easy and flexible manner.

Best weighbridge management software for all industries.



STEEL



CEMENT



AGRICULTURE



MINING



OIL AND GAS



PORTS



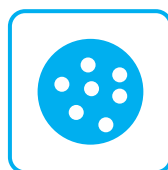
SUGAR



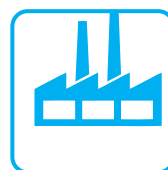
LANDFILLS



WASTE CYCLING



ASPHALT



MANUFACTURING







## WEIGHBRIDGE SOFTWARE DASHBOARD

The New Overview Dashboard offers a clear, powerful & unified performance with a fresh new look. Our Dashboard includes-

- Live Feed of The Events
- Live Details of The Weighment Cycle
- Monitor multiple weigh-bridges from a single UI
- Switch to Manual process or shut down by a single click
- Capture Weight at any point
- Live Alerts




### RFID Registration




Token No :

RFID No :

Truck No :

Transpoter :  

Driver Name :

Vehicle Type :  

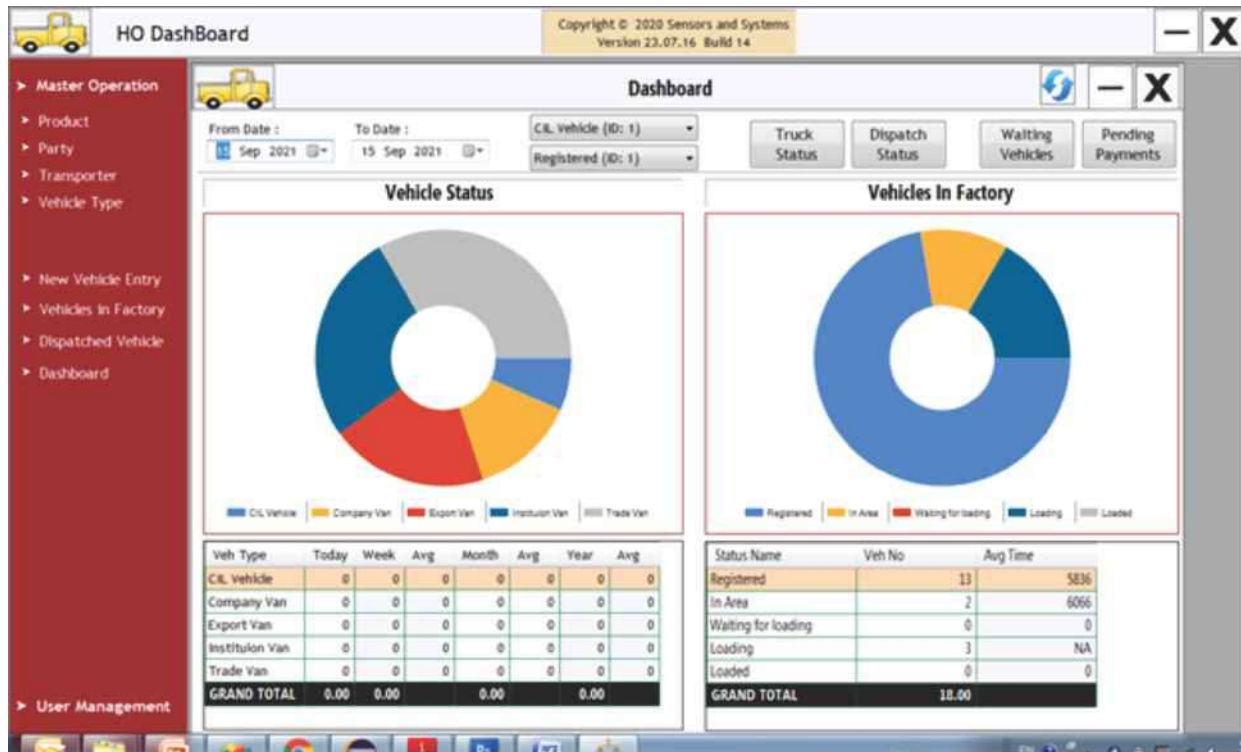
Van Capacity :

☐ Aadhaar☐ License

☐ RC Book☐ Insurance



## DASHBOARD WITH TAT



## VEHICLES IN FACTORY

HO Dashboard

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Version 23.07.16 Build 14

Dispatch Section

Edit Status Edit Tran Data Break Down

Truck No	Driver Name	Product	Party	Veh Type	Status	RTGS	Quantity	Unit
NA	RAM BHAND			CIL Vehicle	Waiting for ...			
1000		SUPREMEDET-SCOMBIDET2.5 MTR...	CHANDAN GIFT HOUSE	CIL Vehicle	Registered		1	EA
RB40		SUPREMEDET-SCOMBIDET2.5 MTR...	CHANDAN GIFT HOUSE	CIL Vehicle	Parking Area	YES		EA
		SUPREMEDET-SCOMBIDET2.5 MTR...	CHANDAN GIFT HOUSE	CIL Vehicle	Registered			EA
MH32		SUPREMEDET-SCOMBIDET2.5 MTR...	ARBHANT TRADING COMPANY	CIL Vehicle	Registered			EA
500		SUPREMEDET-S STL 8.5 MTR 9 MS	CHANDAN GIFT HOUSE	CIL Vehicle	Registered		300	M
250		SUPREMEDET-S STL 8 MTR 4.7 MS	CHANDAN GIFT HOUSE	CIL Vehicle	Registered		300	OTH
120		SUPREMEDET-SCOMBIDET2.5 MTR...	CHANDAN GIFT HOUSE	CIL Vehicle	Registered		10	TO
120				CIL Vehicle	Registered			
120				CIL Vehicle	Registered			
250				CIL Vehicle	Registered			
200				CIL Vehicle	Registered			
100				CIL Vehicle	Registered			
100				CIL Vehicle	Registered			
NA	RAM BHAND	SUPERPOWER GOLD (60mm) EXPO...	YIKRAM EXPLOSIVES,UMARI	CIL Vehicle	Gross Weigh...		4	TO
NA	RAM BHAND	SUPREMEDET-SCOMBIDET2.5 MTR...	CHANDAN GIFT HOUSE	CIL Vehicle	Gross Weigh...		100	TO
NA	JIMMI	SOLAR CORD IV (20 GM) ALEGERIA	BALAJI AUTOMATION & SE...	CIL Vehicle	Gross Weigh...	YES	5	M
SK-1234	RAM BHAND	MICRODET-1 (ELECTRONIC DETO)...	GLOBAL INDIFEST INC	CIL Vehicle	Sent for Loa...	HO	10	TO



## DISPATCHED VEHICLES

**HO Dashboard** Copyright © 2020 Sensors and Systems  
Version 23.07.16 Build 14

**Dispatch Analysis**

Search Product:  All (ID: 0) From Date:  To Date:

Search Party:  All (ID: 0)

Truck No	Driver Name	Product	Party	Veh Type	Status	RTGS	Quantity	Unit
AR432C1234	RAM BHAND	SUPREME PLAIN DETONATOR NO.8	SRI SHYAM STEEL	CIL Vehicle	20 Dec 2020 ...		100	EA
MH43A2345	SUNIL PAWAR	SUP AL SEISMIC DETONATOR 14.0...	Sunil Nitrate Pvt Ltd	CIL Vehicle	20 Dec 2020 ...		5	TO

**Master Operation**

- Product
- Party
- Transporter
- Vehicle Type

**New Vehicle Entry**

- Vehicles In Factory
- Dispatched Vehicle
- Dashboard

**User Management**

## ROLE BASED SECURITY

**Configure Dispatch User**

**Roles**

Name
User Admin
System Config
Take Weights
Image Gallery
Reports
Register RFID
Unregister RFID

**Assigned Roles**

Name
Product Master
Party Master
Transporter
Supplier
Vehicle
Release Vehicle
Edit Status
Edit Manual
Breakdown

## MANLESS WEIGHBRIDGE SYSTEM

	Eliminates the Weighbridge operators
	Absolutely no operating costs with a Fully Automated Vehicle Weighing
	The same RFID is used by the driver at the tare weighbridge
	Fully integratable solution into your back office systems
	Fast throughput for busy weighbridge
	CCTV Camera and Photo Capturing indication
	Increases efficiency and productivity
	Avoid Labour force by excluding the need for an Operator
	Enable unmanned, self-service weighing process
	<b>Weighbridge Custom Software :</b> For unmanned weighbridge system, the tailor made software shall be provided as per Customer's working .



## AUTOMATED WEIGHBRIDGE SOLUTION FEATURES

	<b>Traffic Lights :</b> Traffic lights, manages and controls the traffic at the weighbridge for safe operation. The automated software guides the driver as the truck passes in the weighbridge.
	<b>Automated Identification System :</b> Automate Identification Systems is one of the key features of unmanned weighbridge system that is used individually to identify trucks or people and avoid fraudulent use of an automated system. Possibilities include personal radio frequency tags, recognition cameras and weighbridge software, and more.
	<b>Barrier Gates &amp; Security :</b> This development is perfect for supervising traffic access and traffic flow on site, barrier gates can be functioned manually using an on/off switch or could be operated automatically with an integrated unmanned weighbridge system.
	<b>CCTV Video Surveillance :</b> Cameras for security recognition and digital video recorders (DVRs) for storage and management of videos. CCTV software can monitor the number of vehicles entering the premises and alert security personnel.
	<b>Digital Displays :</b> Digital display plays a vital role under unmanned weighbridge system that displays weight reading to the driver with numeric message along with the site destination details.
	<b>Automated Weighbridge System :</b> Automation system increases the output and reduces the operation costs by providing a fast, precise, and completely unmanned solution. Automated unmanned weighbridge system & weighbridge software make throughput much faster, prevents inaccuracies due to unstable weights. This control assimilates sensors, RFID readers, LED information display, traffic signals and boom barriers hence there the system eliminates the need for weighment slips.
	<b>Weighbridge Management System :</b> EL-WEIGH has developed this weighbridge software to provide effectively limitless flexibility for future proof weighbridge management systems. Unmanned weighbridge management system can be used to control security cameras and automatic number plate cameras, providing digital records of each and every vehicle entering and leaving sites.
	<b>Weighbridge software :</b> We provide numerous weighbridge data management software for unmanned weighbridge system, customer can use a standard PC at their weighbridge for any purpose. CronJ is entirely hosted Weighbridge software solution that tracks all your data in real time, customer can choose the software & develop in house software for PC.

# EL-WEIGH

## DIGITAL LOAD CELL

### Product Description

**EL-WEIGH** Digital loadcells are pre-calibrated from standard weights and are capable of transmitting direct weight output in digital form.

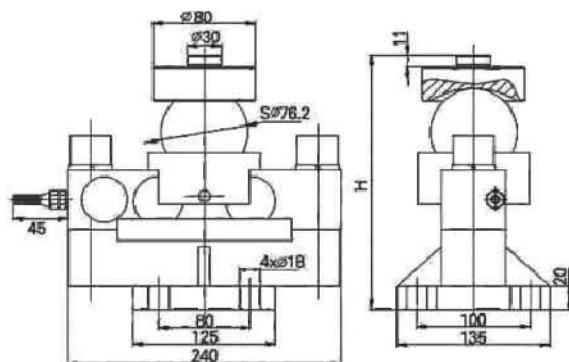
### Key features

- Corner correction not required.\*
- No Calibration required No signal attenuation from external environment.
- Better Accuracy.
- Long Distance signal communication between weighbridge room and structure (Up to 200 mt).
- Built In Surge protection.
- Superior finish with superior Orange cable.
- No chance of Signals manipulation Very simple & easy installation procedure Easy field replaceability.
- Cost Effective.



**Model - DLT - 30T**

### Dimension



Rated Load	5 t	10-30 t	40 t
D1	68	85-88	88
D2	50.8	76.2	75.2
H(mm)	168.8	224.7	230.7
L(mm)	224	240	240

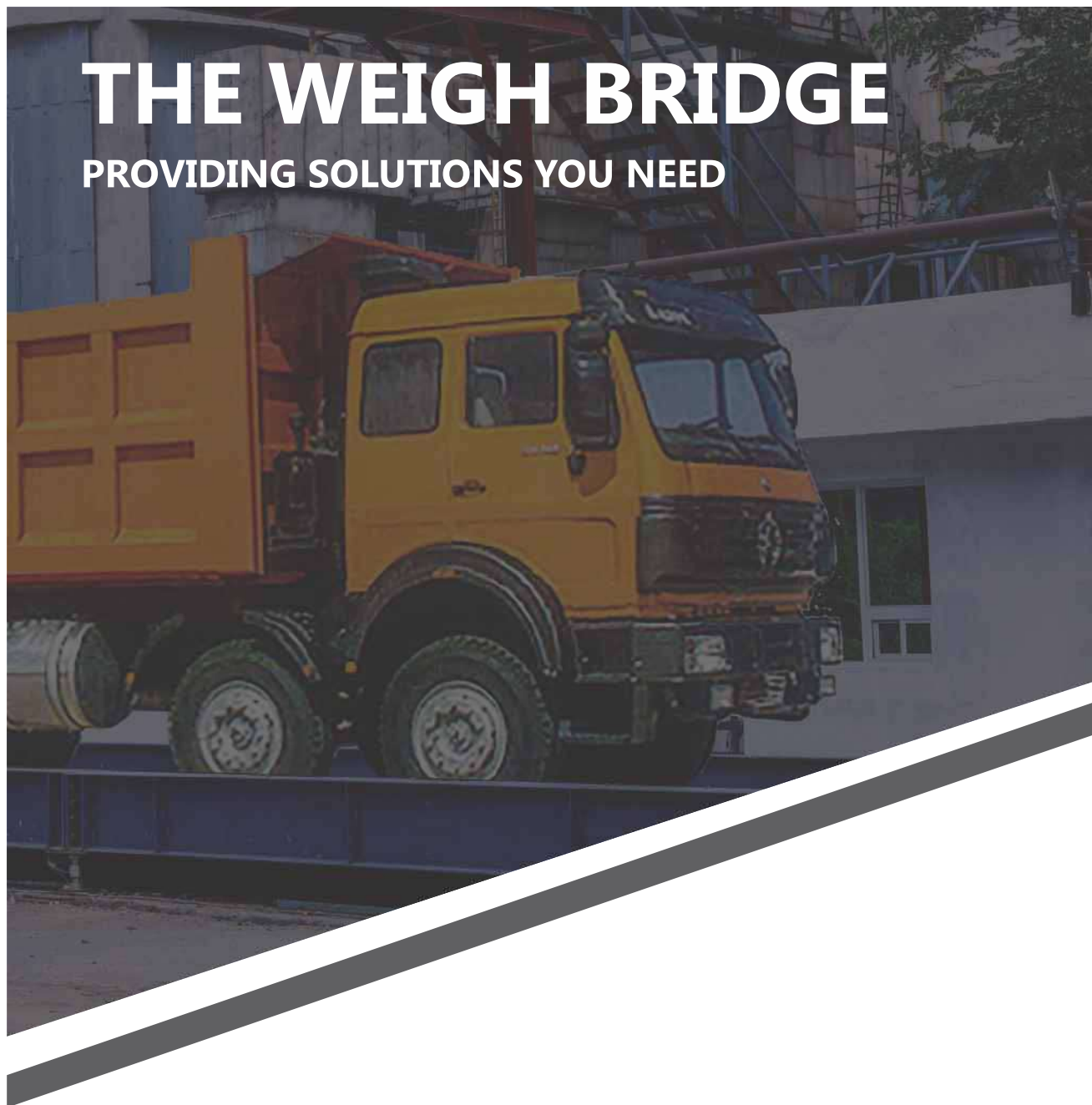
### Technical Specification

Rated capacities (Fmax)	5T, 10T, 20T, 30T, 40T
A/D Module Resolution	200000
Safe Overload	150% FS
Rated Output	30000 Div
Creep error	0.02% FS
Combined error	0.02% FS
Zero Balance	0.1% FS
Temperature Effect	0.02% FS FS/°C
Temperature Range	-30°C~+70°C
Data Refresh Rate	50 Hz
Max Input	20V DC
Voltage Input voltage	9~12V DC
Baud Rate	9600 BPS
Signal Transmission distance	500 M
Protection Class	IP 68
Output :	RS-485
Connections :	
Excitation + : Red	Signal + : Green
Excitation - : Black	Signal - : White



# THE WEIGH BRIDGE

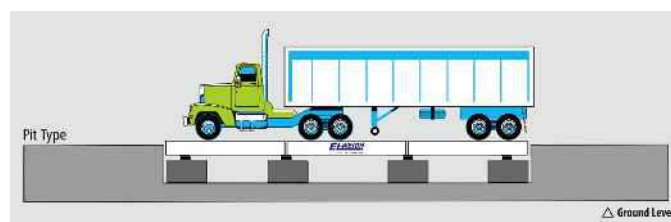
PROVIDING SOLUTIONS YOU NEED





### PIT TYPE WEIGH BRIDGE

- Less frontage required
- Leveled with ground
- Easy access to Weighbridge

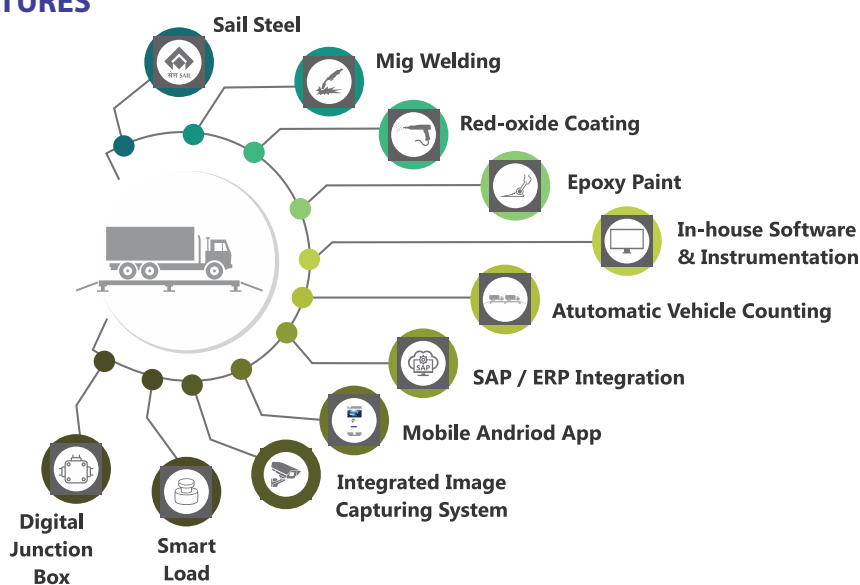


### PITLESS TYPE WEIGH BRIDGE

- Easy for maintenance
- Less Civil construction cost
- No water logging.



### KEY FEATURES







## DIGITAL WEIGH BRIDGE

In today's rapidly evolving scenario of Weighing & Industrial Automation technologies; the state-of-art weighing systems with the latest updated technologies must serve the customer to produce most accurate & reliable results. Our advanced Industrial Electronic Weighing Systems are result of years of R&D activities continuously on-going in our advanced laboratories & feed backs from our R&D team, customers, service engineers and industry experts.

Our sophisticated weighing systems along with the most user friendly yet powerful software & highly advanced Digital Load cells provides the most unique combination for our customers providing them peace of mind. Our customers always say "It's worth spending money on our systems" making us unique in the field of Weighing & Automation. Our R&D staff comprises of our own highly experienced software & hardware engineers with state of art facility supporting it.

## WEIGH BRIDGE DETAILS

- The rugged reliable system & ultra modern technology makes our weighing simple, instant & trouble free
- Surface mounted pit less weigh bridges for easy service ability, no water logging, approached by low angle ramps
- Very simple & economical civil foundation
- Heavy duty & high precision double ended shear beam / compression type load cells are used with built in surge arrester device
- Insulators are provided to prevent damages against heavy lightning & welding
- We also manufacture customised sized load cells

## WEIGH BRIDGE SPECIFICATIONS

CAPACITY	5 to 200 mt
MODEL	EWB
ACCURACY	1/2/5/10/20 Kg
PLATFORM SIZE IN MTR.	5 x 2.5, 6 x 3, 7 x 3, 7.5 x 3, 9 x 3, 12 x 3, 14 x 3, 16 x 3, 18 x 3
Jumbo Display	100mm
Interface	RS232, RS485 Ethernet, Networking Interface, Bluetooth Interface
Software	Support My-SQL, MS-SQL, SYBASE, POSTGRE SQL. Camera Integration - Mobile Android App Vehicle Counting



## SMART APP WEIGHBRIDGE



- Now you can view your weigh bridge on your Mobile.
- Fully secure admin panel for protecting your sensitive data.
- Fully customisable analysis of your weighment.
- Never to miss your records using our state of art mobile technology.
- The only mobile enabled weighment technology.
- Our Smart App having facility to connect your Weighbridge At one Place in Your Mobile.
- View live streaming of Weighbridge in Your Mobile APP also with your Admin Office. with cloud base data.
- **Secure Data Reporting with Mobile APP :** Owner can Allow by Adding Mobile nos. to View data.
- Integrate any Nos with this Smart App.
- Internet Require at Weighbridge Location for Data uploading at server.
- Daily / Weekly / Monthly and customise Reports.



## INTEGRATED VEHICLE POSITIONING SYSTEM AND IMAGE CAPTURING SYSTEM

Upgrade your existing any make Weigh Bridge with our integrated image capturing, SMS & Emailing System.

### DESCRIPTION

- This integrated image capturing system works as a safe guard for all Weighment transactions
- It gives full proof traceability for all your transactions
- Our specifically developed application software captures a very high quality ultra HD images in different angles like front, back & top view ensuring empty & loaded view of the vehicle
- These images are stored with transactions in a secure repository
- These images can be printed on your Weighment slip

### SILENT FEATURES OF THE SYSTEM

- Ensures vehicle is correctly placed on Weighing Platform
- You can ensure no foreign object is on platform
- Captures images of each vehicle content to ensure it matches the description given by Vehicle Driver/ Owner/ Customer reducing risk of mis-declaration of goods
- Restricted for manual entries from keyboard like Weight editing
- SMS & Email delivery: As soon as images are captured SMS & email are delivered to desired destinations.

#### WEIGHING SLIP

**WB 01**

Slip No	:: 663	Date	:: 10 Apr 2021
Truck No	:: MH04FP6633	Gross Weight(Kgs)	:: 9020.00 01 Apr 2021 15:51:53
Account	:: DEFAULT	Tare Weight(Kgs)	:: 4945.00 01 Apr 2021 13:09:36
Product	:: TAR BUNDLE	Net Weight(Kgs)	:: 4075.00
Vehicle Type	:: 6TT	Weigh Charge(INR)	:: 60.00

Customer Sign

Operator Sign:



## DIGITAL WEIGHING TERMINAL

### MODEL : EWB-D



- |  |   |  |
|--|---|--|
| 1. Interface of digital load cell:     | : |  |
| Interface mode                         | : | RS485  |
| Transmission distance                  | : | ≤1000 meter  |
| Transmission speed                     | : | 9600 baud  |
| Signal power source                    | : | DCIOV, ≤400mA  |
| Interface capability                   | : | ≤16 Digital Load Cells   |
| Compatible protocol                    | : | Digital module protocol of the Company   |
| 2. Display                             | : | 7-digit super brightness white light LED display, 10 z state indicating lights   |
| 3. Keyboard                            | : | Number keys 0-9  |
| 4. Clock                               | : | Function keys 24 (10 composite keys with number keys)  |
|  | : | For displaying year, month, date, hour, minute, second, intercalary year/month automatically without the influence from power failure. |
| 5. Scoreboard display interface        | : |  |
| Transmission mode                      | : | Serial output, 20mA electric current loop signal (constant-current source output)  |
| Transmission Baud Rate                 | : | 600  |
| Transmission distance                  | : | ≤2000 meters   |
| 6. Serial communication                | : |  |
| Interface                              | : |  |
| Transmission mode                      | : | RS232/RS422 (optional) Optional  |
| Baud Rate                              | : | 600/1200/2400/4800/9600 Optional   |
| Transmission distance                  | : | RS232 ≤30 meters; RS422 ≤1200 meters   |
| 7. Application environment             | : |  |
| Power source                           | : | AC 100~264V, 50~60Hz   |
| Operating temperature                  | : | —10°C — 40°C   |
| Storage and transportation temperature | : | -25 ~ 55°C   |
| Relative humidity                      | : | ≤85%RH   |
| Preheating time                        | : | ≤30 Minutes  |
| Fuse                                   | : | 0.5A   |
| 8. Shape (mm)                          | : | 290x75x210 (do not contain the size of bracket)  |
| 9. Weight                              | : | About 2.7 kilograms  |



## T34



### COMPRESSION COLUMN LOAD CELL FOR WEIGHBRIDGES / TRUCK SCALES

**Capacities 10t - 60t**

Upper and Lower Attachment Plates  
to be supplied by Customer  
Protective Gaiter is removed for clarity

This stainless steel self-centering rocker column load cell is fully welded and hermetically sealed, with protection to IP68/1 P69K. It is an ideal solution for weighbridges/truck scales thanks to its approvals to OIML C4 (4000 divisions) and NTEP Class III L, as well as lightning surge arrestors and a tough, durable polyurethane cable.

Corner correction at the junction box is minimised because the T34 is pre-corner adjustment optimised at  $\pm 0.05\%$  by output current calibration (in mV/V/N). This saves a significant amount of time during commissioning. For use in weighbridges/truck scales, a range of mounting cup accessory sets are available as optional items, in either stainless steel or nickel plated alloy steel, along with a rubber gaiter, sealing clip and a set of centering discs. The T34 load cell also has application in silo, vessel and tank weighing, for which the T34 Silo Mount version is preferable.

For applications in aggressive environments where stress corrosion or acid attack could be an issue, a special Parylene coating can be specified as an option. Also available are ATEX and High Temperature versions. While the ATEX certification allows use in all zones, in dust zones 20, 21, 22 and gas zone 2 there is no need for safety barriers.

- Stainless steel load sensor
- Fully welded and hermetically sealed to IP68/1P69K
- In-built surge arrestors for lightning protection
- Calibrated in mV/V/N for pre-corner adjustment optimisation
- Simple installation
- 3 year warranty
- Self-centering rocker column design with anti-rotation pin
- Approval to OIML R60 C4 (4000 divisions)
- Approval to NTEP Class III L
- Mounting cup accessories available
- ATEX and High Temperature options available.



## Integrated Vehicle Positioning System and Image Capturing System

Upgrade your existing Weigh Bridge With Integrated Image Capturing ,SMS & Email firing System.

### Description :

- It is a necessity of this system in today's business transactions.
- This Integrated Image capturing System works as to safe guard all Weighment transactions.
- It gives full proof traceability to Weighing Transactions.
- Our specially developed application software captures a very high quality ultra.
- HD Images in different angles like Front,back & top view ensures the empty & loaded views.
- These images are stored with transactions at backend of software.
- If you require to print these images on Weighment Slip you can.
- You can to see live streaming thru NVR also.

### Silent Features of the System :

- Ensures Vehicle is correctly placed on Weighing Platform.
- Clear view is there any foreign object on platform other than Vehicle.
- Captures an image of each vehicle content to ensure it matches the description given by.
- Vehicle Driver/Owner/Customer to reduce risk of mis-declaration of goods.
- Restricted for manual entries from keyboard like Weight editing.
- SMS & Email firing: As soon as Images are captured immediately SMS & email will be fired on desired destinations.

## DJB-4SS/6SS/8SS A to D Junction Box



### SPECIFICATION :

Model No	DJB-4SS	DJB-6SS	DJB-8SS
No.of Load Cells Channels	4 nos	6 nos	8 nos
Enclosure	Stainless Steel Housing with Sealing Devices		
AD Converter	1 x 24-bit $\Sigma$ - $\Delta$ Converter/Channel		
Weigh Unit	Metric (Kg)		
A/D Sampling Speed	15 times/ second		
Max. Measuring	15 mV / Channel		
Tare Range	-Max (Subtractive Tare)		
Power Voltage Requirements	External Power = 9~ 12V DC, 800mA		
Load Cell Excitation Voltage	5 VDC/Channel		
Min Load Cell Impedance	350 $\Omega$ /Channel		
Max Load Cell Impedance	1000 $\Omega$ /Channel		
Load Cells Connection	Supports 4-wire and 6-wire Load Cell Connections		
Operation Environment	-10 ~ 40oC. Non-condensed. R.H. 85%		

**I/O TERMINAL :**

- Connect RS232 and RS485 input and output here.
- WM-SP wireless data transmission modules used, power the WM-SP with the 5V output provided here.

**DC JACK:**

Insert the output plug of an external power adaptor (if used) here.

- Power Requirement = DC9V ~ 12V, 800mA.
- Polarity = Center positive.

**POWER SUPPLY TERMINAL:**

- Connect the external power source here.
- Power Requirement = DC9V ~ 12V, 800mA.

**GETTING STARTED:**

The DJB has no power on/off switch. Before working with it or making any connections, make sure that the power source has been removed.

**CONNECTION WITH LOAD CELLS:**

Each load cell has to be connected to an individual load cell input channel. Do not share any load cell input channel with more than one load cell. Use the nearest gland (of a load cell input channel) to thread through the load cell cable. Each load cell should occupy one gland. Do not share a gland with more than one cable. Depends on version, some DJB versions support true 6-wire load cell system, if 4-wire load cell is used with 6-wire DJB version, short-circuit excitation E+ with S+ and E- with S-. Otherwise, DJB will not function.

## Load Cells Input Channel Marking Description :














S+/SIG+	Signal +ve
S-/SIG-	Signal -ve
GND/SHI	Shield/Ground
E+/EXE+	Excitation+ve
E-/EXE-	Excitation-ve
SEN+(if available)	Sense +ve
SEN-(if available)	Sense -ve



## ANALYTICAL BALANCE - AUTO-CAL

## ATN-G SERIES <sup>New</sup>



-  animals weighing
-  density
-  AutoCAL
-  recipe
-  statistics
-  pieces counting
-  percentage
-  summation
-  date/time
-  threshold/selection
-  max weights
-  min weight
-  products and use database

### Features:

- Complete automatic time & temperature calibration with GMP-GLP record print-out.
- Brilliant Graphic LCD display with simple navigation.
- windows and menu to guide you through balance functions.
- User selectable filter, stability indicator and auto-zero tracking for use in difficult environment.
- Procell software allows for direct transfer of weighing results to excel spreadsheet.
- Weigh below hook for below weighing application with in-built density measurement software.
- With a die-cast metal base and stainless steel pan, and balance is built to withstand rugged every day Weighing.
- **Application:** Parts Counting, Animal Weighing, Check-Weighing, Display Hold, Percent Weighing, Totalizing, SQC Quality Control.
- RS232C and USB connector to connect with PC
- Optional LAN /wi-fi

### Option :-



alibi memory



measurements database

MODEL	CAPACITY (gm)	RESOLUTION (gm)	PAN (mm)	REPEATABILITY (gm)	LINEARITY (gm)	RESPONSE TIME (Sec.)
<b>Auto-Internal Calibration</b>						
ATN 120G	120	0.0001	Ø 90	± 0.0001	± 0.0002	<
ATN 160G	160	0.0001	Ø 90	± 0.0001	± 0.0002	<
ATN 220G	220	0.0001	Ø 90	+ 0.0001	+ 0.0002	<

### Optional Accessories

- Density Kit • Data Printer
- Software • Test Weights



## New ACN-G SERIES

### Features:

- Complete automatic calibration with in built weights, time & temperature with GMP-GLP record printout.
- 3 Level User and Password protection,
  - Upto 5 Users
  - Upto 100 Products.
  - Upto 10000 Weigh ments
- Communication Interface:
  - RS232C Interface for data output.
  - USB-A Connect Pendrive or PC keyboard.
  - USB-B Connect to Computer.
- Brilliant backlit high resolution graphics display.
- Weigh below hook for below balance weighing with in-built density application software.
- Application:
  - PCS — pieces counting
  - Unit — 17 different weighing units
  - Percent — percentage conversion
  - LabEL\* - label number selection
  - Animal — animal weighing
  - Tare setting — storing tare value
  - MAX/MIN — maximal value indication.
  - Newton — indication in force units.
  - Total — summing of weighing
  - Threshold — comparing with thresholds
  - Stats — statistics calculations
  - Paper — GSM grammage counting
  - Recipe — recipe making
- With a die-cast metal base and stainless steel weighing pan.

## PROFESSIONAL+ANALYTICAL BALANCE



animals weighing



density



Autocal



recipe



statistics



pieces counting



percentage



summation



alibi memory



printout config.



products and users database



measurements database



date/time



threshold/selection



max weight



min weight

MODEL	CAPACITY (gm)	RESOLUTION (gm)	PAN (mm)	REPEATABILITY (gm)	LINEARITY (gm)	RESPONSE TIME (Sec.)
-------	---------------	-----------------	----------	--------------------	----------------	----------------------

### Auto Internal Calibration

ACN 120G	120	0.0001	Ø 90	± 0.0001	± 0.0002	< 5
ACN 220G	220	0.0001	Ø 90	± 0.0001	± 0.0002	< 5
ACN 320G	320	0.0001	Ø 90	± 0.0001	± 0.0002	< 5



### Optional Accessories

- Density Kit • Data Printer
- Software • Test Weights

# ALN SERIES

## PROFESSIONAL ANALYTICAL BALANCE

### Features:

- Complete automatic time & temperature calibration with GMP-GLP record print out.
- Brilliant backlit high resolution graphics display with simple navigation windows and menus allows for balance operation easy and quick.
- User selectable filter, stability indicator and auto-zero tracking for use in difficult environment.
- Procell software allows for direct transfer of weighing results to excel spreadsheet.
- Weigh below hook for below balance weighing with in-built density application software.
- With a die-cast metal housing and stainless steel pan, and balance is built to withstand rugged every day Weighing.
- **Application :** Parts Counting, Animal Weighing, Check-Weighing, Display Hold, Percent Weighing, Totalizing, SQC Quality Control, Filling, Density.
- **OPTION : ALIBI Memory.**
  - Upto 5 Users
  - Upto 100 Products
  - Upto 10000 Weighments



### Option :-

-  *alibi memory*
-  *measurements database*

-  *AutoCAL*
-  *GLP compatibility*
-  *date/time*
-  *animal weighing*
-  *density measurement*
-  *recipe*
-  *statistics*
-  *unit selection*
-  *multilanguage*
-  *pieces counting*
-  *percentage*
-  *summation*
-  *threshold/selection*
-  *max weight*
-  *min weight*

MODEL	CAPACITY (gm)	RESOLUTION (gm)	PAN (mm)	REPEATABILITY (gm)	LINEARITY (gm)	RESPONSE TIME (Sec.)
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### Auto Internal Calibration

ALN 60G	60	0.0001	Ø 90	± 0.0001	± 0.0002	< 5
ALN 120G	120	0.0001	Ø 90	± 0.0001	± 0.0002	< 5
ALN 220G	220	0.0001	Ø 90	± 0.0001	± 0.0002	< 5
ALN 320G	320	0.0001	Ø 90	± 0.0001	± 0.0002	< 5

### Optional Accessories

- Density Kit • Data Printer
- Software • Test Weights



## ANALYTICAL BALANCE - AUTO

## ATN SERIES



### Features:

- Complete automatic time & temperature calibration with GMP-GLP record printout.
- Brilliant backlit LCD display with simple navigation windows and menu to guide you through balance functions.
- User selectable filter, stability indicator and auto-zero tracking for use in difficult environment.
- Procell software allows for direct transfer of weighing results to excel spreadsheet.
- Weigh below hook for below weighing application with in-built density measurement software.
- With a die-cast metal base and stainless steel pan, and balance is built to withstand rugged every day Weighing.
- **Application :** Parts Counting, Animal Weighing, Check-Weighing, Display Hold, Percent Weighing, Totalizing, SQC Quality Control.
- RS232C and USB connector to connect with PC \* Optional LAN /wi-fi.



summation



AutoCAL



date/time



animals weighing



recipe



threshold/selection



density



pieces counting



max weight



statistics



percentage



min weight

### Optional Accessories

- Density Kit • Data Printer
- Software • Test Weights



MODEL	CAPACITY (gm)	RESOLUTION (gm)	PAN (mm)	REPEATABILITY (gm)	LINEARITY (gm)	RESPONSE TIME (Sec.)
-------	---------------	-----------------	----------	--------------------	----------------	----------------------

### Auto-Internal Calibration

ATN 120	120	0.0001	90	± 0.0001	± 0.0002	< 3
ATN 160	160	0.0001	90	± 0.0001	± 0.0002	< 3
ATN 220	220	0.0001	90	± 0.0001	± 0.0002	< 3



# ATS-BTS SERIES

## MOISTURE ANALYZER

### Features:

- Halogen heaters
- Drying temperature up to 160°C
- Graphical display with backlight & Drying chart displaying.
- Convenient and Easy text menu.
- Reports edition with PC keyboard.
- Storing 20 drying programs.
- Equipped with USB, RS232, PS2 Interface.
- Free PC Software.
- Multiple profiles and analysis modes.
- Drying Report Printing with GLP/GMP.
- Automatic self test at Power up.
- Available ways to evaluate humidity:
  - in proportion to initial weight
  - in proportion to dried weight
  - percentage of dried weight
- Drying mode:
  - time
  - short (automatic)
- Drying mode:
  - Standard
  - Fast
  - Slow
  - Step



date/time



external calibration



GLP compatibility



drying programs memory



drying graph



result in percentage



drying profiles



multilanguage



drying report



freeware computer program



printout config.

### Optional Accessories

- Calibration Thermometer
- Printer • Software • Test Weight



MODEL	ATS 60	ATS 120	ATS 210	BTS 110D	BTS 110
CAPACITY [gm]	60	120	210	110	110
RESOLUTION [gm]	0.001	0.001	0.001	0.005	0.01
MOISTURE RESOLUTION	0.01 %	0.01 %	0.01 %	0.05 %	0.1 %
PAN SIZE [mm]	Ø 90				
HUMIDITY MEASURE REPEATABILITY	± 0.1% (sample 2g) ± 0,04% (sample 5g)			± 0,5% (sample 2g) ± 0,2% (sample 5g)	
HUMIDITY READOUT PRECISION	1% < 0.5g sample, 0.1% < 5g sample, 0.01% > 5g sample			0,1% (sample > 10g) 1% (sample < 10g)	

## MOISTURE ANALYZER

## AGS SERIES



external calibration



drying programs  
memory



GLP compatibility



result in percentage



date/time



multilanguage



printout config.



freeware computer  
program



drying graph



drying profiles



drying report

### Features :

- Halogen heaters (Option: Infrared Type)
- Drying temperature up to 160°C (Option 250°C)
- Robust die-cast metal housing.
- Graphical display with backlight & Drying chart displaying.
- Convenient and Easy text menu.
- Reports edition with PC keyboard.
- Storing 20 drying programs.
- Equipped with USB, RS232, PS2 Interface.
- Free PC Software.
- Multiple profiles and analysis modes.
- Drying Report Printing with GLP/GMP.
- Available ways to evaluate humidity:
  - in proportion to initial weight
  - in proportion to dried weight
  - percentage of dried weight
- Drying mode:
  - time
  - short (automatic)

MODEL	AGS 60	AGS 120	AGS 210	AGS 60 T250	AGS 120 T250	AGS 120 IR	AGS 210 IR
CAPACITY [gm]	60	120	210	60	120	120	210
RESOLUTION [gm]	0.001	0.001	0.001	0.001	0.001	0.001	0.001
MOISTURE RESOLUTION	0.01 %	0.01 %	0.01 %	0.01 %	0.01 %	0.01 %	0.01 %
TEMPERATURE	160°C			250°C		160°C	
HEATING TECHNOLOGY	HALOGEN					INFRARED	
PAN SIZE [mm]	Ø 90						
HUMIDITY MEASURE REPEATABILITY	± 0.1% (sample 2g) / ± 0,04% (sample 5g)						
HUMIDITY READOUT PRECISION	1% < 0.5g sample / 0.1% < 5g sample / 0.01% > 5g sample						

### Optional Accessories

- Calibration Thermometer
- Printer • Software
- Test Weights



## MOISTURE ANALYZER

## AGS SERIES



external calibration



drying programs memory



GLP compatibility



result in percentage



date/time



multilanguage



printout config.



freeware computer program



drying graph



drying report



drying profiles

### Features:

- Halogen heaters (Option : Infrared Type).
- Drying temperature up to 160°C (Option 250°C).
- Robust die-cast metal housing.
- Graphical display with backlight & Drying chart displaying.
- Convenient and Easy text menu.
- Reports edition with PC keyboard.
- Storing 20 drying programs.
- Equipped with USB, RS232, PS2 Interface.
- Free PC Software.
- Multiple profiles and analysis modes.
- Drying Report Printing with GLP/GMP.
- Available ways to evaluate humidity:
  - in proportion to initial weight
  - in proportion to dried weight
  - percentage of dried weight
- Drying mode:
  - time
  - short (automatic)

MODEL	AGS 60	AGS 120	AGS 210	AGS 60 T250	AGS 120 T250	AGS 120 IR	AGS 210 IR
CAPACITY [gm]	60	120	210	60	120	120	210
RESOLUTION [gm]	0.001	0.001	0.001	0.001	0.001	0.001	0.001
MOISTURE RESOLUTION	0.01 %	0.01 %	0.01 %	0.01 %	0.01 %	0.01 %	0.01 %
TEMPERATURE	160°C			250°C		160°C	
HEATING TECHNOLOGY	HALOGEN					INFRARED	
PAN SIZE [mm]	Ø 90						
HUMIDITY MEASURE REPEATABILITY	± 0.1% (sample 2g) / ± 0,04% (sample 5g)						
HUMIDITY READOUT PRECISION	1% < 0.5g sample / 0.1% < 5g sample / 0.01% > 5g sample						

### Optional Accessories

- Calibration Thermometer
- Printer • Software
- Test Weights



# New ACA-G SERIES

## PROFESSIONAL PRECISION BALANCE

### Features:

- Complete automatic calibration with in built weights, time & temperature with GMP-GLP record print out.
- 3 Level User and Password protection,
  - Upto 5 Users
  - Upto 100 Products.
  - Upto 10000 Weighments
- **Communication Interface:**
  - RS232C Interface for data output.
  - USB-A Connect Pendrive or PC keyboard
  - QSB-B Connect to Computer.
- Brilliant backlit high resolution graphics display.
- Weigh below hook for below balance weighing with in-built density application software.
- Application:
  - PCS – pieces counting
  - Unit – 17 different weighing units.
  - Percent – percentage conversion
  - LabEL\* – label number selection
  - Animal – animal weighing
  - Tare setting – storing tare value.
  - MAX/MIN – maximal value indication
  - Newton – indication in force units.
  - Total – summing of weighing
  - Threshold – comparing with thresholds
  - Stats – statistics calculations
  - Paper – GSM grammage counting
  - Recipe – recipe making
- With a die-cast metal base and stainless steel weighing pan.



animals weighing



density



AutoCAL



recipe



statistics



pieces counting



percentage



summation



max weight



min weight



alibi memory



products and users database



printout config



measurements database



date/time



threshold/selection

MODEL	CAPACITY (gm)	RESOLUTION (gm)	PAN (mm)	REPEATABILITY (gm)	LINEARITY (gm)	RESPONSE TIME (Sec.)
<b>Auto Internal Calibration</b>						
ACA 320G	320	0.001	Ø 115	± 0.001	± 0.002	< 3
ACA 520G	520	0.001	Ø 115	± 0.001	± 0.002	< 3
ACA 820G	820	0.001	Ø 115	± 0.002	± 0.002	< 3
ACA 1020G	1020	0.001	Ø 115	± 0.003	± 0.003	< 3
ACA 3200G	3200	0.01	165 x 165	± 0.01	± 0.02	< 3
ACA 4200G	4200	0.01	165 x 165	± 0.01	± 0.02	< 3
ACA 6200G	6200	0.01	165 x 165	± 0.02	± 0.04	< 3

### Optional Accessories

- Density Kit • Data Printer
- Software • Test Weights



## PRECISION BALANCE - AUTO-CAL



animals weighing



pieces counting



percentage



density



AutoCAL



max weight



statistics



recipe



min weight



summation

MODEL	CAPACITY (gm)	RESOLUTION (gm)	PAN (mm)	REPEATABILITY (gm)	LINEARITY (gm)	RESPONSE TIME (Sec.)
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### Auto-Internal Calibration

ATA 320	320	0.001	Ø 115	± 0.001	± 0.002	< 3
ATA 520	520	0.001	Ø 115	± 0.001	± 0.002	< 3
ATA 620	620	0.001	Ø 115	± 0.001	± 0.002	< 3
ATA 3200	3200	0.01	Ø 150	± 0.01	± 0.02	< 3

### External Calibration

ATZ 320	320	0.001	Ø 115	± 0.001	± 0.002	< 3
ATZ 520	520	0.001	Ø 115	± 0.001	± 0.002	< 3
ATZ 3200	3200	0.01	Ø 150	± 0.01	± 0.02	< 3

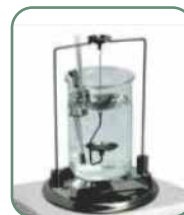
## ATA / ATZ SERIES

### Features:

- ATA Series Complete automatic time & temperature calibration with GMP-GLP record printout.
- Brilliant backlit LCD display with simple navigation windows and menus to guide you through balance functions.
- Use selectable filter, stability indicator and zero tracking for use in difficult environments.
- RS232C and USB connector to connect with PC.
- Optional LAN / WI-FI connection allows to extend communication.
- Weigh-below hook for below weighing applications with in-built density measurement software.
- All the scales have a rich set of special functions : counting of identical pieces, calculation of mass changes in percentage, recipe making, SQC Quality Control, Animal Weighing, change of measurement unit (ct, lb, oz, ort, gr, dwt), Totalisation.

### Optional Accessories

- Density Kit • Data Printer
- Software • Test Weights

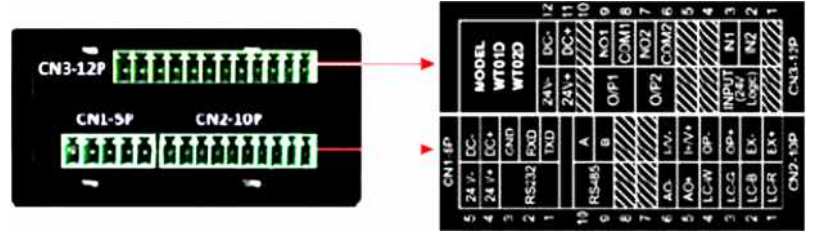






### TECHNICAL SPECIFICATIONS:

**DISPLAY** : 5 Digit bright Red Color LED display  
**LOADCELLS** : Drives 4 Load Cells of 350Ω  
**A/D CONVERTER** : Internal 20-Bit, External 16-Bit Resolution  
**POWER SUPPLY** : 9-28V DC, Power Consumption : 5 Watts max  
**Conversion Rate** : 10 Sample / Sec  
**DIMENSION** : DIN STD 48x 96 mm Panel Cutout, Depth - 120

MODEL	WT-01	WT-01 D	WT-02	WT-02 D	WT-03
ANALOG OUTPUT	0-5 V/10V, 0/4-20mA		----	----	0-5 V/10 V 0/4-20mA
SERIAL PORTS	----	----	RS232 / RS485 (Half Duplex)	RS232 / RS485 (Half Duplex)	RS232 / RS485 (Half Duplex)
PROTOCOLS	----	----	RTU / ASCII Modbus Dump	----	ASCII Modbus Dump
DIGITAL INPUT	----	2 INPUTS High Logic (5-24V DC)	----	2 INPUTS High Logic (5-24V DC)	----
DIGITAL OUTPUT	----	2 OUTPUTS Potential Free Contact (24V DC/1A)	----	2 OUTPUTS Potential Free Contact (24V DC/1A)	----
CONNECTION DETAILS	<p><b>WT-01D, WT-02D (Optional)</b></p>  <p><b>WT-01, WT-02, WT-03</b></p>				

#### APPLICATION

- Silo Weighing
- Platform Scales
- Tank Weighing
- Bench Scales
- PLC Integration

## PROCESS WEIGHING AUTOMATION

### Committing High Accuracy performance in Manufacturing Industries

- Perfect Weighing with accurate batching.
- Improves Productivity, Product uniformity.
- Very user friendly software.

### PROCESS Weighing Automation :

- Industries
- Food
- Chemical
- Steel Plants
- Ferro Alloy Steel Plant
- Paint Industries
- Construction
- Pharma
- Refractory
- Paint
- & Any other Process Industry



### Applications :

- To monitor real time Weight management for.
- Storage Tanks/Hoppers/Silo /Blender Weighing
- Capacities : 1kg to 250 tons
- Gain in Weight & loss in Weight measurement
- Batching & Process monitoring

### Real Time monitoring on Scada :

#### Put Scada Image

#### PLC+HMI Controllers :

SM35J/TR20	: Multipurpose High Speed Controller
Screen Size	: 136mm x 105mm
Display	: 4.3" Color Touch Housing: Panel/DIN Rail
Power Supply	: 24vDc Application: Batching Controller, Check Weighing, Filling, Belt.
Weighing Interface	: RS232/485/Ethernet/Modbus
I/O's	: In 12 Output 12
V570(V200-18-E62B)	: Multipurpose High Speed PLC+HMI Controller
Screen Size	: 124.5mm x 182mm Touch
Power Supply	: 24vDc
Application	: Batching Controller, Check Weighing, Filling, Belt
Weighing Interface	: RS232/485/Ethernet/Modbus/4-20ma/Canbus
I/O's	: In 20 Output 25

### Smart Weighing Terminals :

Model	: EL-XT1000 DIN Rail Mounted Weighing Indicator & high Speed transmitter
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Incorporating the latest up-to-date electronics, the Model EL-XT1000 is a high performance display indicator and high speed data transmitter suitable for Static & Dynamic Weighing. It is specially designed for process weighing systems, as well as all types of machinery with weighing as a part of their function. Because of its DIN/Omega rail mount design and versatility of digital input/output and data transmission options, it is ideally suited to connection to PLCs, PCs and remote systems.

**Typical Application include :** Weighing & level measurement of Tanks & Silo's, filling & dosing machines, Check Weighers & other dynamic applications, thanks to integrated check Weigher mode and the high speed data capture rate of 2400 measurements/second.

Calibration can be accomplished either by using real weights or by using the load cell sensitivity in mV/V allowing for fast start-up and commissioning.

- Bright, 6 Digit, 10mm LED display
- High resolution with 24-bit ADC and 16 000 000 interval divisions
- 2400 measurements
- Configuration & Calibration using software or integral keypad
- Calibration protection by software or mechanically
- Powers up to 8,350  $\Omega$  or 16,700  $\Omega$  Load cells
- RS232/RS485 (Modbus RTU & ASCII) & Optional PROFIBUS, PROFINET or Ethernet /IP
- Configurable analogue outputs: 0-5V, -10V, 0-20mA and 4-20mA with galvanic isolation
- 3 Digital opto-isolated inputs and 3 Digital outputs to relay, with status LED's.
- DIN/Omega rail mounting
- 10-28V DC power supply, Optional AC-to-DC adapter available (DIN rail mounted).

#### **EL-AD7730:**

Incorporating the latest up-to-date electronics, the Model EL-AD7730 is a high performance display Indicator and high speed data transmitter suitable for Static Weighing. It is specially designed for process weighing systems, as well as all types of machinery with weighing as a part of their function. It is ideally suited to connection to PLCs, PCs and remote systems.

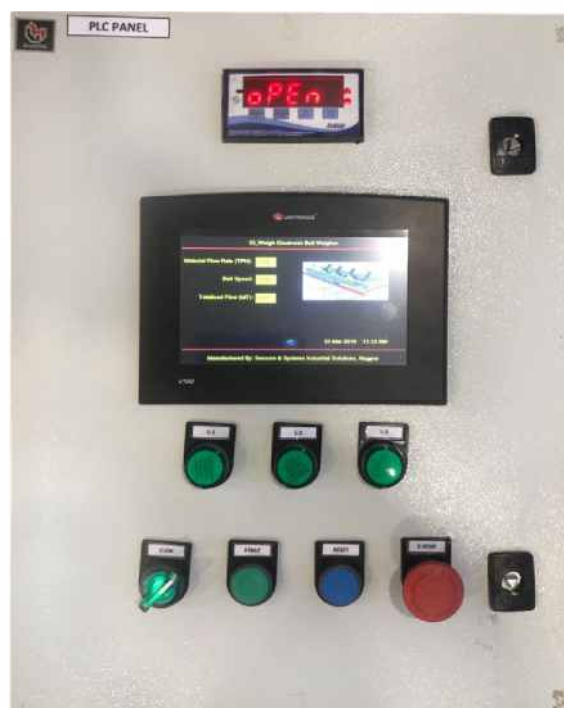
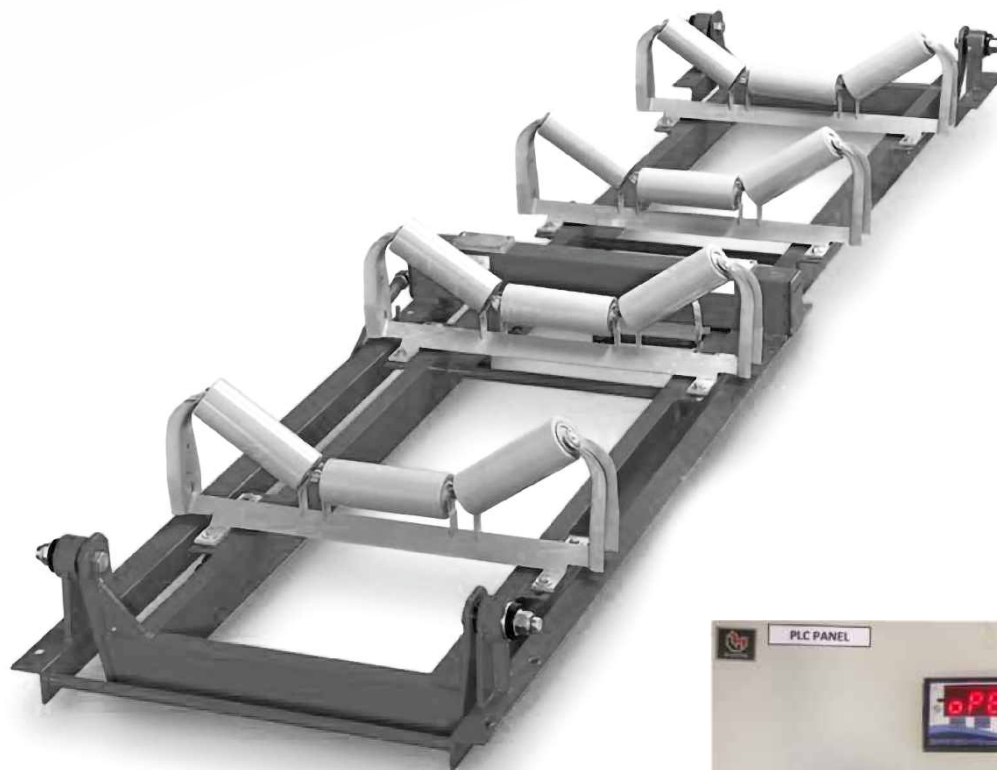
- Typical Application include: Weighing & level measurement of Tanks & Silo's, filling & dCalibration protection by mechanically
- Powers up to 4,350  $\Omega$  or 10,700  $\Omega$  Load cells
- **Interface :** RS232/RS485/4-20ma
- 3 Digital opto-isolated inputs and 3 Digital outputs to relay,

#### **EL-WT:**

Weight transmitter is controlled by 8 Bit microcontroller to accurately measure the load and for rapid acquisition of data. The Indicator is user friendly, easy to calibrate and menu driven. This Indicator is having the following features, It has built-in peak hold facility.

**Precise & Accurate  
Weighing Solution  
For  
Conveyor Systems**

# **CONVEYOR BELT** SCALES



Conveyor belt is used in Industrial applications that need transfer of bulk material continuously in a cost effective and efficient manner. To measure the flow and total weight of material transferred over the belt without interrupting the transfer process; a suitable weighing mechanism is integrated in the conveyor system. This conveyor weighing system (also known as belt weigher) consists of a weighing frame, load cells, speed sensors and a weighing indicator. Conveyor weighing system finds its utility in various Industries like mining, cement, stone crushers, Power Plants, etc.

**EL-WEIGH** provides all solutions for all your needs of conveyor weighing

## Panel Mounted Terminal



- Calculation of speed using pulse input & rotary disc arrangement
- Weight calibration for various belt speed
- Calculation & display for speed, load, rate, totalizer
- Speed of the conveyor belt (meter/minute)
- Load on the conveyor belt (kg/meter)
- Flow rate of material being transferred (tons/hour)
- Totalizer to show the weight transferred over a set time (tons)
- Optional analog output proportional to flow rate (4-20mA)





## TECHNICAL SPECIFICATIONS

Microprocessor	32 Bit ARM
Clock	120 MHz
A/D converter	Sigma Delta Type with 24 bits resolution delivering 50 samples per second Conversion speed : 50 Hz
	Excitation : 5V @ 300mA (up to eight loadcells of 480 ohms each)
	Signal/Unit Weight : 1 micro volt to 3 micro volts per unit weight
Display	16 character by 2 line LCD display for load in Kg/m
	Speed in m/min
	Rate in tons/hr
	Totaliser in tons
Keyboard	4 Key front panel keyboard
Input	Digital input for connecting pulse input for belt speed from DC tachometer
Output	Serial port RS-232C port for computer interface or remote display interface
Indication	Buzzer for fault indication and data entry
Power Supply	SMPS with EMI/RFI filter and Spike suppresser (Industrial Grade-EN61326)
	Input Voltage 90 V-270 V AC @ 50Hz/ 60Hz
	RFI/EMI Filter for input power protection
	Spike suppressor for input transients, Fuse 2.5A for AC power input
Power Consumption	10 VA
Environment	Operating temp : 0° to 55°C
	Humidity : upto 95% RH non condensing
Mechanical	Dimensions :
	Case size : 245 x 315 x 156 (WxHxD) mm
	Weight : 15 Kg (approx)
Enclosure Type	Wall mount sheet metal housing (Industrial Grade-IP66)



OUR CLIENTELE		
Sr.No	Customer Name	Location
CEMENT PLANTS		
1	Ambuja Cement	Gadchandur
2	Ambuja Cement	CTPS Chandrapur
3	Manikgarh cement	Gadchandur
4	Orient cement	Devapur(Telangana)
5	ACC Cement	Chandrapur
6	Orient Cement	Nashirabad
STEEL PLANTS		
8	JSW Steel Coated Products Ltd.	Kalmeshwar ,Nagpur
9	JSW MI Steel Pune	Rajguru Nagar,Khed
10	Essaar Steel Pune	Sanaswadi, Pune
11	Rourkela Steel Plant	Rourkela, Odissa
12	Uttam Value Steel Ltd.	Wardha
13	Uttam Value Steel Ltd.	Wardha
14	Anurag Ferro Products Ltd	Raurkela
15	Chandrapur Ferro Alloy Plant (SAIL)	Chandrapur
16	Bhushan Steel	Khopoli
17	Bhushan Steel	Khopoli
18	Rashtriya Ispat Nigam Ltd,Vishakhapatnam	Vishakhapatnam
19	Durgapur Steel Plant (SAIL)	Durgapur(WB)
20	Bajaj Steel Ltd	Nagpur
TRANSMISSION LINE TOWER PLANTS		
21	Amitasha Enterprises	Nagpur
22	Unitech Electrical Transmissions	Butibori
23	Shipa Rerollers Ltd.	Butibori
24	TATA PROJECTS Ltd.	Umrer
25	ERA T&D	Umrer
26	KEC	Butibori
27	Karamtara Engg	Butibori
28	Transrail Lightning Bihar	Bihar
29	Transrail Lightning Saupal	
30	Kalpataru Power Transmission	Madhya Pradesh

**THERMAL POWER STATIONS**

31	Chandrapur Super Thermal Power Station	Chandrapur
32	Bhusawal Thermal Power Station	Bhusawal
33	Ramnik Power Balaghat	Balaghat
34	Nasil T.P.S.	Nasik
35	Adani Power	Tiroda
36	Ideal Energy Power	Bela Sonagaon

**EXPLOSIVES**

37	Solar Explosives (I) Ltd.	Chakdoh
38	Solar Explosives (I) Ltd.	Rajura
39	Solar Explosives (I) Ltd.	Chandrapur
40	Solar Explosives (I) Ltd.	Sawanga
41	Economic Explosive Nimji	Nimji
42	Solar Explosives (I) Ltd.	Dhanbad
43	Solar Explosives (I) Ltd.	Asansol
44	Solar Explosives (I) Ltd.	Ramgarh
45	Solar Explosives (I) Ltd.	Talcher
46	Solar Explosives (I) Ltd.	Jharsuguda
47	Solar Explosives (I) Ltd.	Ramagundam
48	Solar Explosives (I) Ltd.	Manendragarh
49	Solar Explosives (I) Ltd.	Korba
50	Solar Explosives (I) Ltd.	Vaidhan
51	C-Det Explosives	Talegaon
52	C-Det Explosives	Talegaon

**TEXTILES**

53	IndoRama Synthetics (I) Ltd.	Butibori
54	Gima Tex Industries Ltd.	Hinganghat
55	Gima Tex Industries Ltd.	Hinganghat
56	R.S.R.Mohota Mills Ltd.	Hinganghat
57	P.V.Textiles Ltd.	Jam
58	Spentex Industries Ltd.	Butibori
59	Nirmal Textile	Kondhali
60	Sarvadnya Textiles	Hingni
61	Innovative Textiles Pvt. Ltd.	Butibori

**COTTON GINNING & PRESSING**

62	Shri Krishan Ginning & Pressing	Dhondgaon
63	Maa Bhawani Ginning & Pressing	Hinganghat
64	Salasar Cotex	Hinganghat
65	Golhar Industries	Hinganghat
66	Ravikamal Cotex	Warora
67	Shri Sai Krupa Ginning & Pressing	Hinganghat
68	P.N.Gawande Ginning & Oil Inds	Bazargaon
69	Siddivinayak Cotex	Umrer
70	S. K. Cotton	Bhiwapur
71	Chimur Cotton Inds	Chimur
72	Shree Krishna Ginning & Pressing	Seloo
73	Vitthal Rahumai Ginning & Pressing	Bhisi
74	Bajrang Agro Industries	Kora/Samudrapur
75	Ganesha White Gold	Umrer
76	SGM Cotton Inds	Hinganghat
77	Babasaheb Kedar Ginning & Pressing	Saoner, Patansawangi, Hingna
78	Alishan Ginning	Orissa
79	Sai Ginning	Sindhala (Vani)
80	SKG Associates	Adyal Bhandara
81	Bajarang Agro	
82	Ganesh Trading	
83	Malviya Agro	
84	JSK Ginning	Akola
85	Aditi Cotton	Warora
86	Nirmal Ginning & Pressing	Kondhali, Seloo, Chimnazari
87	Ashoka Ginning	Butibori
88	Baid Industries	Hinganghat
89	Sarvadnya Ginning & Pressing	Hingni (Wardha )
90	Jalaram Cottex	Hinganghat
91	Shriniwas Ginning	Hinganghat

**CRUSHER PLANTS**

1	Tayani Group	Mouda
2	Nikhare Construction	Kanholibara
3	Siddeshwar Crusher	Pachagaon
4	Rushiraj Infra	Kanolibara
5	Wadwani Crusher	
6	Bastone Crusher	
7	Pawan Putra Crusher	
8	Radha Stone Crusher	
9	Bhumi Crusher	Kelzar
10	R R Stone Crusher	Pachgaon Utti

**INDUCTION FURNACES**

92	T&T Metal	Ranchi
93	Galaxy Ent.	Tatanagar
94	Om Dayal Ignates	Raigarh
95	Swastic Ignates Pvt. Ltd	Ramgarh
96	Hariom Smelters Pvt. Ltd.	Tatanagar
97	Yash Alloys Pvt. Ltd.	Ramgarh
98	Radhe Govind Alloys Pvt. Ltd.	Raigarh
99	Alok Ispat Ltd.	Raigarh
100	Mahendra Ispat Pvt. Ltd.	Raigarh
101	Gayatri Ispat Inds. Pvt. Ltd.	Raigarh
102	Shriram Hightech Pvt. Ltd.	Raigarh
103	Radha Krishna Minerals	
104	Rushiraj Infra Pvt. Ltd.	Nagpur
105	Bhoomi Crusher	Wardha
106	Balaji Ispat Inds. Pvt. Ltd.	Raigarh





MUMBAI/ PUNE		
108	Maharashtra Enviro Ltd	Ranjangaon, Pune
109	HPCL Vashi	Vashi
110	R.P.Gupta & Sons	Vashi Truck Terminal
111	Hindalco	Mumbai
112	Kleen Air	Pune
113	Atharva Foundries Wai MIDC	Pune/Wai
114	Miraj Dry Mix	Wada/Mumbai
115	JSW Tarapur	Mumbai
116	Tata Toyo	Pune
117	Amibal Impex, Mumbai	Mumbai
118	Walchandnagar Industries	Pune
PUBLIC SECTOR COMPANIES		
119	ISRO VSSC	Kerla
120	HPCL	Khapri and Washi
121	SAIL	Chandrapur
122	RINL	Vishakapatnam
123	Steel Plant	Durgapur
124	IREL	Orissa
125	Steel Plant	Rahukela
126	Indian Railway	Lakhnow
ROAD INFRASTRUCTURE		
128	Sath Bahav (MBCP)	
129	MEP Infra	Meta Umri & Khadgaon
130	Shiv Samdha Infra	Umred
131	Siddheshwar Infrastructure	Pachgaon Umred
132	Bhawana Engineering	Butibori
133	Maharashtra Weigh Bridge (ZFM)	Hingna
134	DLI Infra	Nagpur

**FOOD/GRAIN INDUSTRIES**

135	Adani Argi Logistics Ltd.	Punjab
136	APMC Seloo	Seloo Wardha
137	Sundar Biscuit	Nagpur
138	Saj Food	Nagpur Butibori
139	Lalita Rice Mill	
140	Kanayaka Rice Mill	Chandrapur
141	Bhagyashree Agro	Mndali
142	Amruta Biofills	
143	Shri Tirumala Rice Mill	Bhandara
144	Suraj Dal Mill	Nagpur
145	Walia & Bros	Gondia
146	Geeta Industries	Jamb
147	Ruchi Soya	Butibori
148	Mother Dairy	Nagpur
149	Ramdeo Rice	Arjuni Morgaon

**EXPORT**

150	Estern Metech Private Limited	Iran
151	Bajaj Industries Limited	Russia/South Africa/Uzbekistan
152	VRL Trading Corp	
153	PT Pacific Indopalm	Indonesia

**SILO INDUSTRIES**

154	Adani Power Limited	Kottapura Punjab
156	B.G. Shirke	Barnala Punjab

**OTHERS**

157	Vicco Laboratories	Hingna
158	Vogour Metal	Butibori
159	Snehal Pharma	Hingna
160	Shyam Metalics	Ramtek
161	Bajrang Drilling	
162	Sai Meher	



## OUR ASSOCIATES





## Mfg. of Industrial & Commercial Digital Scales & Weigh Bridges

 [www.elweigh.com](http://www.elweigh.com)