





35

Years in industry

25K

Manufacturing space(m<sup>2</sup>)

5

Production lines

230

Number of employees

1m<sup>+</sup>

Total output (units)

Pand Industrial Group was established in 1990 in purpose of launching a universal business in the field of electronic and digital weighing systems.

The first digital scale in Iran was produced by Pand Industrial Group, at that time, it was the only capable group to satisfy all market needs. Developing mobile and fixed weighing systems including digital road and rail scales specially truck scales applicable to industrial and commercial has put us among the largest industrial groups in Iran.

Pand Industries, Pand Caspian, Pand Weighing Control and Dara Electronics are our subsidiaries industrial company.

Fanavari Pand Caspian Company, specializing in production and installation services of all types of heavy and semi-heavy digital scales, has been operating independently since 2006 as one of the members of the group. As quality and accuracy are our priorities, we have employed technical experts and experienced managers to produce the most accurate weighing systems. Using high-tech equipment is another reason of producing truck scales according to international standards. There are several manufacturing sites that each one is allocated to produce different scales.

- Eshtehard site: It is launched for the production of automated weighing systems including Sorting, Cleaning, Milling, Packaging and etc.
- Etihad site: It is launched for the production of Retail Scale, Industrial Scale, Bench & Floor Scale and etc.
- Qazvin Site: It is launched for the production of heavy and semi-heavy weighing systems including truck scale, metal and concrete ones, and railway scales.

Qazvin site with 30,000 square meters area is known as one of the largest manufacturing sites of heavy weighing systems in Iran and the Middle East. Installing more than 14,000 truck scales in Iran and other countries like Russia, Iraq, Azerbaijan, Tajikistan, Afghanistan, Turkmenistan certified us as one of the market leaders in this area.



## Truck Scale

The truck scale is a sort of bulky scale for weighing a wide range of vehicles. Truck scales normally are used to weigh heavy machines like trailers, trucks and dump trucks. Actually, a digital truck scale is designed in the form of a bridge by which a vehicle is weighed while crossing and standing on it.

The capacity and dimensions of a truck scale can be different depending on its type. For example, normally, trailer truck scales are manufactured according to trailer dimension. Generally speaking, the size of a truck scale depends on the man vehicle it wants to weigh.



## How a Weighing System Works:

In general, weighing systems consist of three main parts: a surface (platform), weighing sensors (Load Cells) and weight display (Indicator). At first, the load is applied to the platform, then the force is applied to load cells based on the gravitational force.

The Load cells, working based on electromechanical mechanism, have a tiny physical change while they under loads. Therefore, each one transmits a low voltage to indicator. Finally, indicator converts voltage to numbers by high-tech electrical boards.

For truck scales, compression load cells are used. This type of load cell is designed by a cylindrical steel shell equipping a tiny electrical board (strain gauges) for converting pressure to voltage. Load cells are installed between two mounts as it should be protected.

Strain gage is a kind of sensor that installed into load cell column; In fact, strain gage converts the amount of longitudinal and transverse strain in a load cell column to a voltage signals output.



# Advantages



## The Benefits of Having a Truck Scale

- More accurate control over the entry of raw materials and the exit of products
- Monitoring is done easily with maximum accuracy
- Any problem is observed at once before having negative impact on other parts
- Setting goals and following up the progression
- Hidden losses are revealed

## Truck Scale Structure

The structure directly refers to the material used for manufacturing of a platform that provides a deck in purpose of weighing a vehicle while staying on it.

A platform can be produced with two main materials: full metal platform and concrete-metal platform, both have its own unique characteristics and benefits that should be installed under specific situations.



Concrete-Metal Platform ■



Metal Platform ■

## Metal Platforms

A metal platform is the one manufactured just by metal, without any other kind of materials.

### Advantages of Metal Platform

- High Accuracy Performance
- Superior Strength and Great Performance
- Easy and Fast Assembly and Relocation
- Minimum Excavation
- Modular Panels Made of Metal Beams
- No Need Heavy Crane
- Light Metal Structure
- Low Service and Maintenance Cost
- Easy Access to Load Cells for Service and Maintenance



## Caspian Pit-Less Truckscale

Caspian Pit-less truck scale is suitable in places where the excavation of foundation is difficult. Since the structure is above the ground, vehicles can approach the Truck Scale only from two directions where the ramps are provided. Caspian tip-less truck scale requires more space as ramps plays a role as tail! Tow side metal guards can be installed to raise safety when sudden movements happened or a truck should be weighed in stormy weather. The color of truck scale is customizable as its size can be, which helps you to request a truck scale in color goes with your color brand identity. One of the prominent features of this model is accessibility of loadcells from both sides and on platform.

## Caspian Pit-Less Truckscale

- High Accuracy Performance in All Conditions
- Superior Strength and Great Performance
- Easy and Fast Assembly and Relocation
- Minimum Preparation just Under Load Cells
- Modular Panels Made of Metal Beams
- No Need Heavy Crane
- Light Metal Structure
- Two Side Metal Guards
- Low Service and Maintenance Cost



## Caspian Pit-type Truckscale

Caspian Pit Type truck scales are designed for industrial units where the vehicle movement is intensive and have insufficient place. Generally, it is installed over a concrete foundation which is prepared on site, no need deep excavation. The metal deck is durable for many years without any problems with rain water drainage system.

Caspian Pit Type truck scale is made according to NTEP regulation to meet all necessary and unnecessary requirements.

The outstanding design with 100% welded structure makes this series fully reliable for heavy-duty weighing. Also, the variation of weighing different trucks from 50 tons to 150 tons enables this truck scale to be used in small and big industries.

## Caspian Truckscale

- High Accuracy Performance in All Conditions
- Superior Strength and Great Performance
- Easy and Fast Assembly and Relocation
- Minimum Excavation
- Modular Panels Made of Metal Beams
- No Need Heavy Crane
- Light Metal Structure
- Low Service and Maintenance Cost
- Easy Access to Load Cells for Service and Maintenance on The Platform



<b>Caspian Type</b>					
<b>No.</b>	<b>Item</b>	<b>Specification</b>			
1	Platform (deck surface)	Metal			
2	Load-Cell	Type / Class: Compression / C3 to C6 - Protection Class: IP 68 (IP 69R) Material: Stainless Steel - Operating Temperature: -40°C ...+80°C Capacity (per load cell): 30t - 40t			
3	Axle limits (CLC)	40 Tons			
4	Protection	Type: L-shape Bumper / No:10-16			
5	Mounting access plate	Yes			
6	Foundation	Pre-Fab foundation / On site constructing			
7	Indicator Model	PU850 or PU750*			
8	Junction Box	Protection class: IP65 / Housing: Stainless Steel			
9	Mounting	High pressure resistance alloy			
10	Color	Alkyd Zinc-Chromate Primer NZ-203			
11	Types*	Capacity	Dimension (m)	Load Cell Quantity	Division**
		50	3*8	5	5
		60	3*16	8	5
		80	3*16 & 3*18	8	10
		100	3*18	8	10
		120	3*18	8	20
		150	3*24	10	20

\*Customized capacity and size are available. / \*\*Weighing accuracy can be more precise by using different Load Cell brand.



## I-Bridge Truck Scale

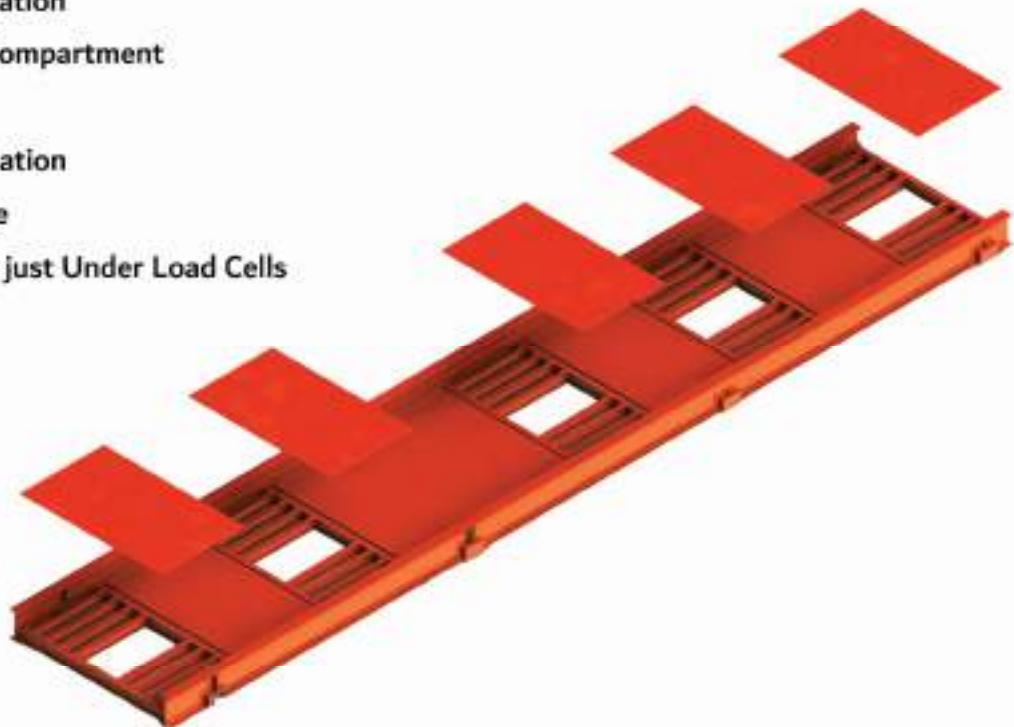
I-BRIDGE are designed for normal highway transportation and the most heavy-duty industrial units including steel industry and mines. The modular design of these products allows us to customize your exact needs.

The positive point of this truck scale is the ability of relocation, which makes it suitable for remote areas where mining and civil projects need a truck scale.

The foundation is easy and fast because just where the loadcells are installed need to be prepared. On top of that, loadcells are available just from sides which makes the process of cleaning and maintenance easier.

## I-Bridge Truck Scale

- The most Heavy-Duty Truck Scale
- High Accurate Weighing
- Reliable Performance
- Easy and Quick Installation
- Disassembling of all Compartment
- Fast relocating
- No complicated foundation
- Long-lasting Life Cycle
- Minimum Preparation just Under Load Cells



<b>I-BRIDGE</b>					
<b>No.</b>	<b>Item</b>	<b>Specification</b>			
1	Platform (deck surface)	Metal			
2	Load-Cell	Type / Class: Compression / C3 to C6 / Protection Class: IP 68 (IP 69R) / Material: Stainless Steel / Operating Temperature: -40°C ...+80°C / Capacity (per load cell): 30t – 40t			
3	Axle limits (CLC)	40 Tons			
4	Protection	Type: L-shape Bumper / No:10-16			
5	Mounting access plate	Yes			
6	Foundation	Preparation Under Load Cells			
7	Indicator Model	PU850 or PU750 <sup>+</sup>			
8	Junction Box	Protection class: IP65 / Housing: Stainless Steel			
9	Mounting	High pressure resistance alloy			
10	Color	Alkyd Zinc-Chromate Primer NZ-203			
11	Types*	Capacity	Dimension (m)	Load Cell Quantity	Division**
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## On-Site Armored Deck

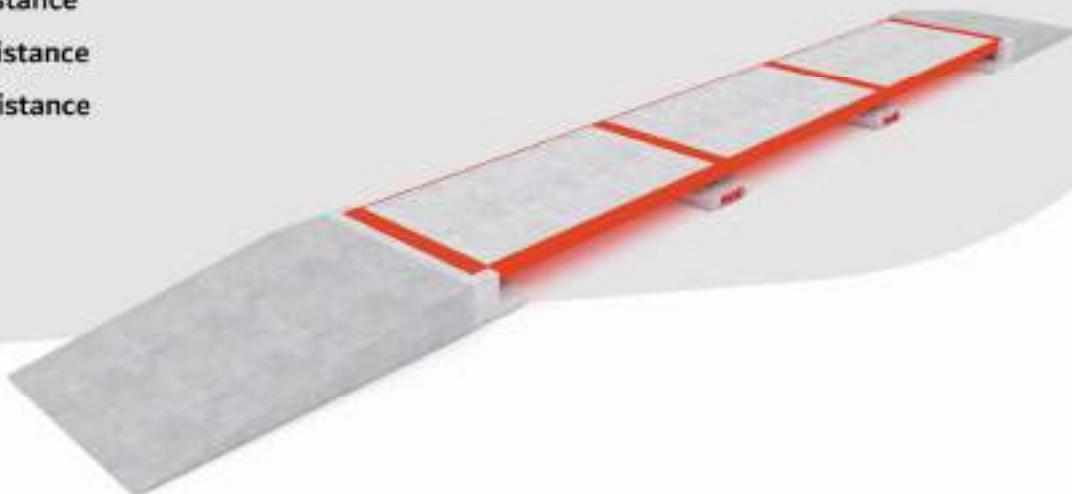
The On-site Armored Deck truck scale can be installed in remote areas where the transportation of pre-fabricated armored deck is tough and unaffordable. The truck scale is installed on the site with constructing foundation and deck.

This On-site Armored Deck can be installed pit and pit-less. This series comes in capacity of 50 tons to 150 tons. They are built with high-quality materials under a professional technical method which make them compatible with all industries.

In tough weather, this truck scale is really resistance as high-quality of metal and color used in manufacturing process leads to thermal, chemical and electrical resistance. As this truck scale is built on site, all raw materials must be prepared on site.

## On-Site Armored Deck

- High Accurate Weighing
- Reliable Performance
- Long-lasting Life Cycle
- Good traction when wet
- Affordable in Comparison with Metal Type
- Thermal Resistance
- Chemical Resistance
- Electrical Resistance



On-site Armored Deck				
No.	Item	Specification		
1	Platform (deck surface)	On-site constructing		
2	Load-Cell	Type / Class: Compression / C3 to C6 / Protection Class: IP 68 (IP 69R) Material: Stainless Steel / Operating Temperature: -40°C ...+80°C Capacity (per load cell): 30t – 40t		
3	Axle limits (CLC)	40 Tons		
4	Protection	Type: L-shape Bumper No:10-16		
5	Mounting access plate	Yes		
6	Foundation	On site constructing		
7	Indicator Model	PU850 or PU750*		
8	Junction Box	Protection class: IP65 Housing: Stainless Steel		
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		150	3*24	10

\*Customized capacity and size are available. / \*\*Weighing accuracy can be more precise by using different Load Cell brand.



## Pre-fabricated Armored Deck truck scale

The Pre-fabricated Armored Deck truck scale can be installed in a wide variety of conditions and industries. As all components were built in factory, the process of installation is easy and fast. But, for remote areas, where the transportation is a demanding job, this type is not a right choice because of time and cost of transportation.

As far as affordability is concerned, this concrete type is more affordable because of using less metal rebar. In comparison with metal truck scale, this model has a great performance in wet conditions and it is the reason that this model has more demand in geographical region where the average rainfall is high.

## Pre-fabricated Armored Deck

- High Accurate Weighing
- Reliable Performance
- Long-lasting Life Cycle
- Good traction when wet
- Affordable in Comparison with Metal Type
- Thermal Resistance
- Chemical Resistance
- Electrical Resistance



## Pre-fabricated Armored Deck

No.	Item	Specification			
1	Platform (deck surface)	Pre-fab Metal/concrete			
2	Load-Cell	Type / Class: Compression / C3 to C6 / Protection Class: IP 68 (IP 69R) Material: Stainless Steel / Operating Temperature: -40°C ...+80°C Capacity (per load cell): 30t – 40t			
3	Axle limits (CLC)	40 Tons			
4	Protection	Type: L-shape Bumper No:10-16			
5	Mounting access plate	Yes			
6	Foundation	Pre-Fab foundation / on Site Constructing			
7	Indicator Model	PU850 or PU750*			
8	Junction Box	Protection class: IP65 Housing: Stainless Steel			
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		150	3*24	10	20

\*Customized capacity and size are available. / \*\*Weighing accuracy can be more precise by using different Load Cell brand.



## Dump Truck Scale

Dump truck scales refer to heavy and gigantic weighing systems that are used to weigh huge trucks or so-called dump trucks

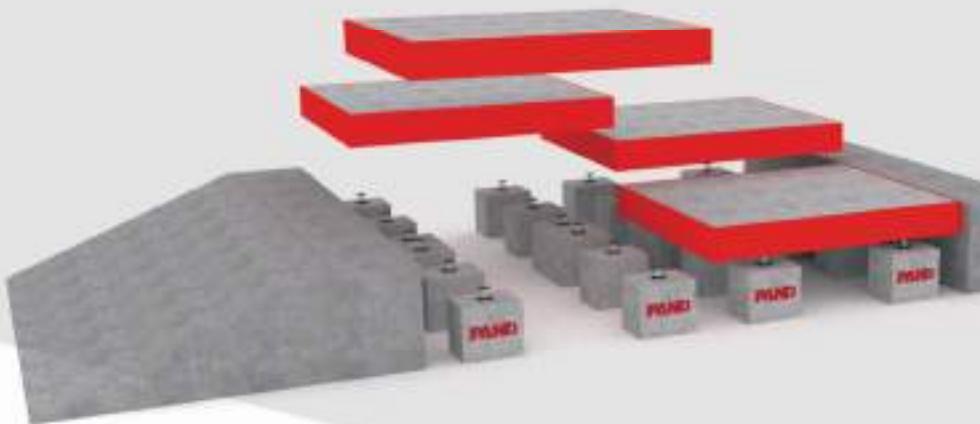
Generally speaking, dump trucks are used in dams, mines and civil heavy projects, naturally, these trucks have a wide range of working models in terms of width, length and tonnage

We, in Pand Caspian have been trying to develop dump truck weighing systems in two types of metal and concrete according to the customer's request and the place where scale is installed

We have a considerable ability to design and manufacture customized dump truck scales from 100 to 300 tons due to our experience in the production and installation of unusual scales for heavy industries and also using the modern technology at our factory. There are many scales have been installed and operated in Iran and neighbors

We provide two possible methods of concrete truck scale installation; on-site construction and prefabricated foundation. Both methods are implemented for pit and pit-less type. Metal truck scale is also executable for heavy weighing systems

It is worth mentioning that in each case, according to the customer's request, unique and special load cells are used which ensured that they perform in terms of accuracy and strength



We, by relying on the professional experienced technicians, benefiting from the latest engineering software, testing and loading equipment, and special production facilities design and produce special scales from 7 tons to 1000 tons (dump truck scales) capacity according to customer orders.

With various dimensions, it is 2 to 12 meters wide and 5 to 40 meters long.

These unique advantages mentioned above distinguishes us from other manufacturers of weighing systems in Iran and the Middle East.

The following items can be mentioned from the special and customized scales produced by Pend-caspian company:

Scale size: 3.5 x 24 meters

Scale size: 3 x 24 meters

Scale size: 9 x 12 meters

Scale size: 4 x 10 meters

Scale size: 3 x 18 meters

Scale size: 4 x 16 meters



## Axle Scales

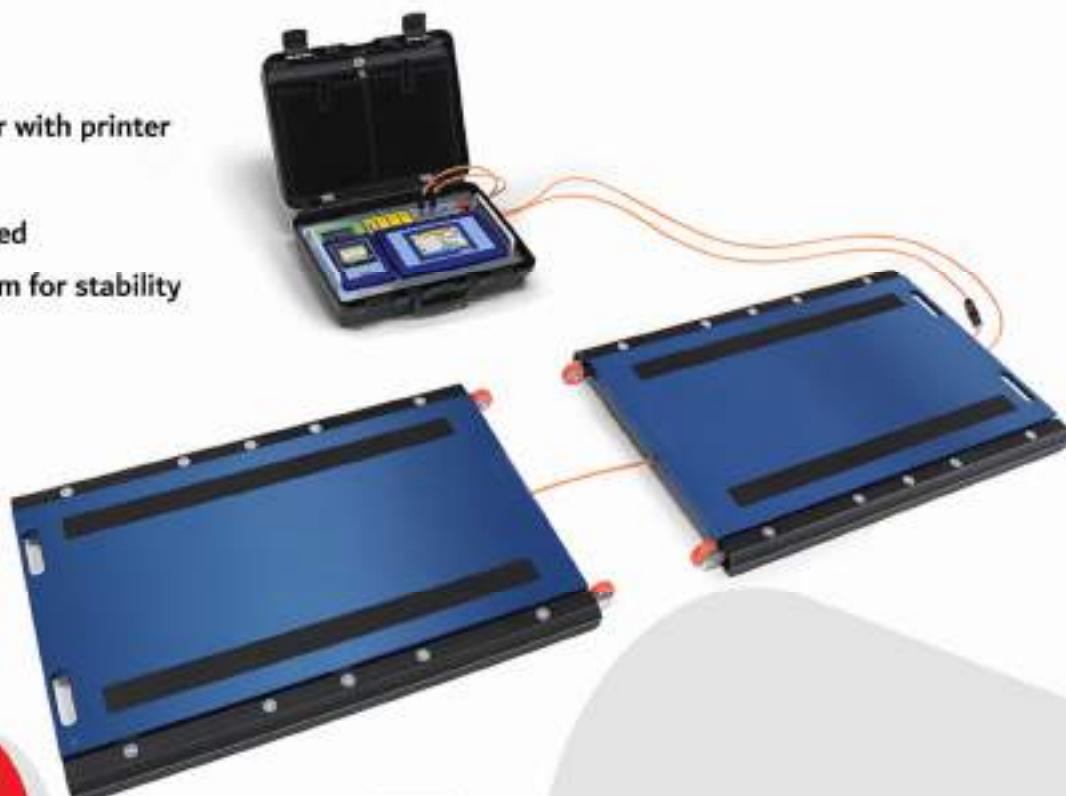
Just drive slowly over axle scale and then the scale does the rest. If you are looking for a fast-weighing system, axle scale is our suggestion. Most weigh-in-motion axle scales have 1-2% accuracy. Keep in mind that not all axle scales are able to support this feature.

Weighing vehicles in motion which is known as axle scale is suitable for control weighing, overload control and traffic flow monitoring. Axle scale is designed to weigh vehicles while a driver drives over the scale bridge, leading factories and plants monitor their traffic flows. Axle scales are really a right scale for traffic control at non-stop traffic sites such as border crossing stations and harbors.

This axle scale provides the ability to precisely weigh vehicle axles and adds up vehicle axle weights. These systems are specifically designed to offer a cost-effective alternative to a full-length truck scale. Our axle scales are not like the cheaply constructed models available on the market today. We have utilized our knowledge from weighing giant mining trucks to incorporate the design of our axle scales.

## Features

- Weighing vehicles in motion
- Provides axle and vehicle-specific weighing information
- Quick installation
- High accuracy
- LCD display indicator with printer
- Simple operation
- On/off ramps included
- Strong metal platform for stability





Axe Scale Technical Specification	
Display Type	LED/LCD
Capacity	20 – 50 ton
Material	Metal
Power Supply	110 – 250 v
Color	Customized color
Size	Capacity 20t: 3.2x0.8 Capacity 50t: 3.2x2.2

## Rail Scale

Rail weighing is a vital component of every rail operation just as truck scales are important in the shipping and logistics sector. It is used for avoiding overloading and monitoring delivering and shipping of products. There are a number of reasons why the use of train weighing scales is recommended.

As the importance of rail Scaling is explained above, we are trying to provide this equipment based on standards and regulations for facilitating railway weighing needs.

## Advantages

Avoiding overcharge shipping

Ensuring you are invoicing clients for the quantity of product shipped

To avoid eccentric loading as well as overloading that causes damages to wagons, cars as well as rail infrastructure

Helps determine the weight of wagons and cars to collect freight revenue

Helps to minimize the high-impact loads, particularly at joints and crossing





#### Rail Scale Technical Specification

Material	Metal
Capacity	60 – 300 Ton
Dimension	Length: 7 – 15 m (Customized) Width: Rail Standard
LoadCell	6 – 18
Protection	Nuts and bolts / No: 12 – 16
Installation	On all railway lines and train stations – Portables

# Customized Truck Scale

## Customized Truck Scale

Since many neighboring countries have different traffic laws and the dimension and size of the trolleys that are allowed to travel in those countries are different, the orders that are given to PendCaspian company from the neighboring countries can be customized in different dimensions.

For example, in Iraq, scales reach 24 meters in length with 150 tons capacity. A customized large weighing scales soled in Iraq is above 18 meters and 120 tons capacity, laws allow them to travel with long tail trailers. Also, in Afghanistan and other neighboring countries, because of this differentiate, scales with bigger length and width can be customized.



## Customized Truck Scale

Due to the restrictions of exporting gigantic goods and cargos to neighboring countries (traffic load) and the high cost of transportation, all mechanical components are constructed on site, instead of using pre-fabricated scales.

It should also be noted that on-site construction scales are installed by our experts who went anywhere that truck scale should be installed, so it costs a great deal of fortune, which is why most buyers prefer metal scales.

Russia, Iraq, Azerbaijan, Colombia, Turkmenistan, Oman, Uzbekistan, Kenya, Afghanistan, Georgia, Pakistan, Tajikistan, Kazakhstan, etc. are among the countries that we have sold them truck scales.

## Customized Truck Scale



## PU850

The most current advanced indicator in Iran is the PendCaspian ones, especially PU850. This indicator is designed and produced based on highest quality components and the latest technologies. This indicator has a wide range of technical capabilities that a truck scale user can use depending on their needs.

These technical capabilities of the indicator help that weighing done with high accuracy, the accuracy of the truck scale does not decrease in special weather, the weighing operation takes place without interruption.

- It has 400 internal memories to input products' name, 400 memories to input the car numbers and 300 temporary memories to be customized based on your business.
- It has a help menu for user training
- It equipped with 8 GB high-speed Micro SD memory with unlimited reporting capabilities
- It is equipped with electromagnetic protection (EMC) and electrostatic (ESD) certification from Amirkabir University Electrical Laboratory
- Seven segment LCD and LED display
- Equipped with battery and smart UPS
- High linear measurement accuracy according to OIML R76 standard
- The ability of connecting to an external keyboard
- The ability of making a report in Excel format
- Bright LCD display and resistant to static electricity
- Dust-proof 60-key keyboard according to ASCII standard, bilingual (Persian, English, Russian and Arabic) with user interface designed for operator and fast use
- Having IP54 degree of protection



## PU750 plus

- It has 400 internal memories to input products' name, 400 memories to input the car numbers and 300 temporary memories to be customized based on your business.
- The weight indicator with electromagnetic protection (EMC) and electrostatic (ESD) certification
- High linear measurement accuracy according to OIML R76 standard
- The ability of connecting to an external keyboard
- Bright LCD display and resistant to static electricity
- Dust-proof 60-key keyboard according to ASCII standard, bilingual (Persian, English and Russian) with user interface designed for operator and fast use
- Having IP54 degree of protection



## Load Cell Analogue

Analog load cell is one of the most common types of load cells used in truck scales. Compared to digital ones, analog load cells are mostly used in truck scales.

The reason for this is the significant advantages of them, including:

Low cost, clear and easy-to-understand technology for the production of truck scales, in contrast, these load cells are not always suitable due to their disadvantages, including:

Limited accuracy, shorter lifespan, dependence on the junction box, manual and time-consuming calibration, inability to check the signal of each load cell separately



## FLINTEC Rc3 Load Cell

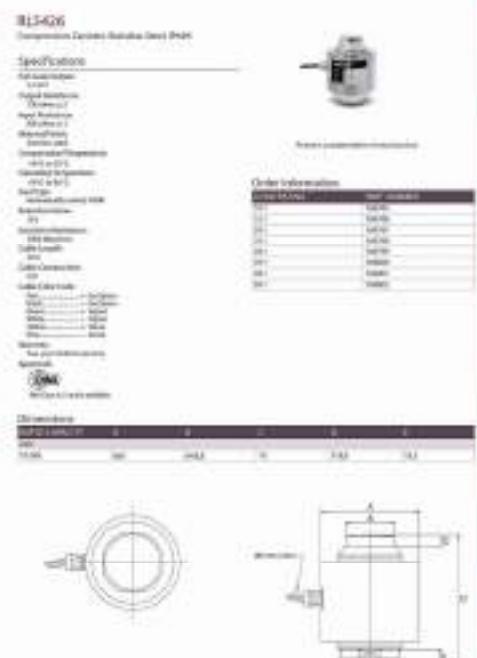
- Made in Germany
  - OIML, NTEX, NTEP, FM certified
  - Designed for industrial applications with a special cable length of 18 meters
  - IP68 permeability protection degree
  - It has C3, C4 accuracy classes and 30Ton, 40Ton capacity
  - Equipped with 4 Surge Arrester units and with the highest degree of electric shock and lightning protection
  - High accuracy in a wide range of temperature applications



# LoadCell Analogue

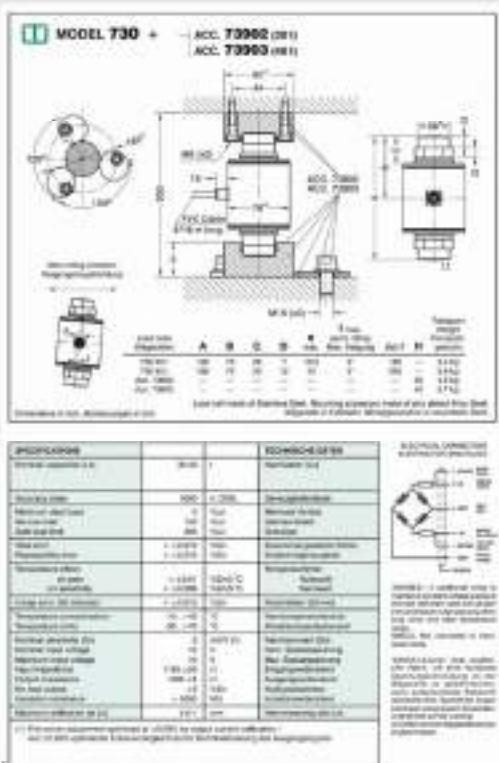
## Rice Lake RL5416/5426 Load Cell

- Made in the Netherlands
- OIML standard
- Moisture resistant
- Stainless steel body
- high accuracy in different weather conditions
- It has C4 and C6 accuracy class



## UTILCELL 730 Load Cell

- Manufactured by UTILCELL, since 1980
  - IP68 and IP69K Protection class
  - Certified accuracy of 4000 based on OIML R60
  - Compatible with climate changes, with working temperature range from -50 to +80 Celsius degrees
  - Used in more than 400,000 devices installed in Europe
  - With international metrology certificates: OIML (Europe and other parts of the world), NTEP (special for the United States of America) and GOST (special for Russia)
  - ATEX, IECEx, FM certification



## LoadCell Analogue

## TRANSDUTEC CP-8 Load Cell

- Made in Spain
  - Accuracy class C4
  - Capacity of 30 tons
  - Having OIML certificate
  - Designed for industrial applications with special metallic cable
  - Moisture resistant
  - Stainless steel body



Model Designation	CP.8					
Minimum capacity, $E_{min}(H)$	18	28	25	30	18	34
Accuracy class	C4					
Minimum number of load cell intervals, $n_{min}$	4800					
Minimum verification interval, $V_{min}$	$T_{max} = 15000$					
Arrangement factor, $\rho_A$	8.78					

Essential technical data			
Model designation	Designation	Value	Unit
Classification		C4	
Additional marking		CH	
Maximum number of load cell verification intervals	$n_{\text{ver}}$	4000	
Minimum capacity	$E_{\text{min}}$	18, 26, 28, 38, 35, 50	
Minimum dead load relative	$E_{\text{dead}}/E_{\text{min}}$	0	
Relative $V_{\text{max}}$ (ratio to maximum LC verification interval)	$Y = E_{\text{max}}/V_{\text{max}}$	15000	
Relative DR (ratio to maximum dead load relative relative)	$Z = E_{\text{max}}/(2^k \cdot DR)$	4000	
Rated output		2	mA/V
Maximum excitation voltage		35	V DC
Input impedance (for static strain LC)	$R_{\text{in}}$	800	$\Omega$
Temperature range		-10 to +50	°C
Safe overload, relative	$E_{\text{over}}/E_{\text{min}}$	125	
Code length (maximum)		15	m
Additional characteristics		4 on 8 wires (plus ground)	



## Load Cell Digital

Digital load cell is one of the most widely used types of load cell in truck scales; the reason for this choice in industrial units is the low percentage of measurement error. This feature causes more demand among customers compared to analog load cells.

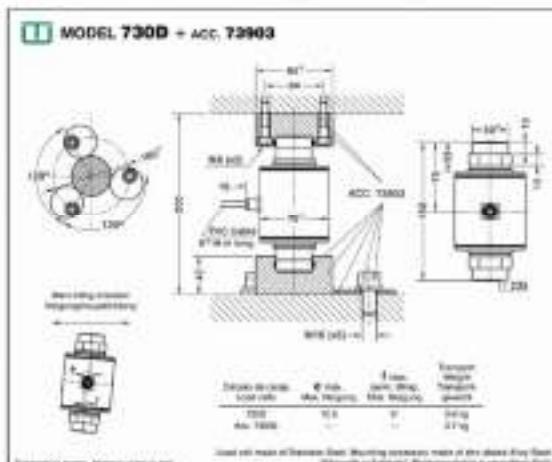
Advantages of using digital load cell:

- Higher accuracy
- Low probability of causing errors in the generation of signal
- Stable calibration
- Possibility of fast and more optimal troubleshooting of defective load cell
- No dependence on cable size and length
- Less sensitive to temperature changes



## UTILCELL 730 D Load Cell

- Digital load cell
  - IP68 and IP69K protection class
  - Certified accuracy of 4000 based on OIML R60
  - Compatible with climate changes, with working temperature range from -50 to +80 Celsius degrees
  - Used in more than 400,000 devices installed in Europe
  - With international metrology certificates: OIML (Europe and other parts of the world), NTEP (special for the United States of America) and GOST (special for Russia)
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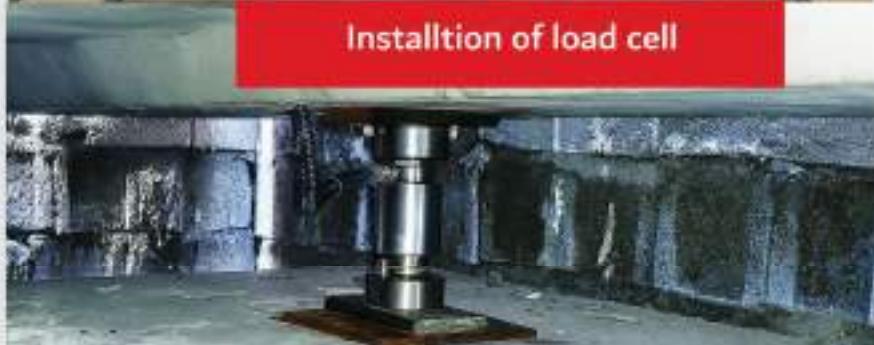
# Installation steps



Protection wall



Preparation of entrance and exit



Installation of load cell



Setting up the scale



Standardization and calibration



## Floor Scale

Floor scales are used in an extensive variety of applications to weigh materials and goods from 700 kg to 5 tons. We have a variety of floor scales in different sizes and capacities to fit your needs. Our floor scales are really durable which make them a perfect choice for your warehouse. Use these floor scales to weigh pallets, barrels and drums, and anything else you can think of putting on it

Pand Px9200 scale, is produced in 3 capacities: 500 kg, 700 kg and 1 ton. Due to higher weighing capacity, the size of the plates is designed with the dimensions of 75 x 75 and 120 x 120. But don't forget that the plate size can be customized according to the size of the product you want to weigh

The Px9800 scale has the highest weighing capacity among the scales offered floor scale model. This scale is produced and provided for the applicants of weighing semi-heavy loads in capacities of 1, 2, 3 and 5 tons. By using 4 load cells, the accuracy of this scale has been optimized to 200, 500, and 1000 grams for of 1 to 5 tons capacity, respectively

We can provide floor scales with ramped edges if you need; made just for weighing barrels. We also have NTEP approved legal for our floor scales for commercial use

Design with structural steel

Four shear beam load cells

Having junction box

LCD display

Output ports for connecting to computers, relays, printers, label printers and barcode scanners

Customizable size based on customer needs

Diamond-pattern tread plate



# Floor Scale









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



**Daryaye Noor Tower, Beheshti St., Tehran, Iran**