



INDUSTRIAL SOLUTIONS
WEIGHBRIDGES

WEIGHBRIDGES

BP-SA

WEIGHBRIDGE SCALE DESIGNED FOR INTENSIVE
VEHICLE USE.
QUICK ASSEMBLY AND EASY INSTALLATION.

- Modulable from 4 to 24 metres
- Quick assembly overground or embedded
- Optional cell's factory assembly
- Economical civil works
- Easy assembly and access to load cells
- Double pivot load cell system
- Cable routing through structure
- Load cell wiring clad in rodent-proof wire mesh
- Hermetically sealed junction box (IP 67)
- Certified according to European standards

Models

BP-SA

BP-SAR

CERTIFIED BY EPELSA



grupoepelsa.com



WEIGHBRIDGES

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POSSIBLE APPLICATIONS

Truck weighing scales, also called weighbridges, are crucial for monitoring compliance with legal weight limits of heavy vehicles on roads. They are also used in agriculture, mining and construction to accurately measure the weight of loads and materials. In addition, they are essential in warehouses, recycling centres and loading docks to ensure regulatory compliance.

WEIGHBRIDGES BP-SA

With an innovative design, the BP-SA scale offers a modular structure ranging from 4 to 24 metres (even up to 32m as an option), providing the flexibility you need to adapt to any project and environment where you want to install it.

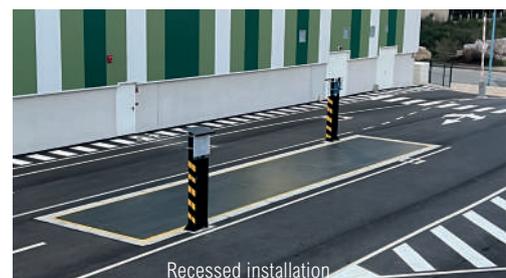
With fast assembly and the option of factory cell assembly, time and resource savings are achieved with every installation. In addition, our weighing system ensures economical civil works, reducing the costs associated with the construction of special foundations.

Ease of assembly and access to the load cells is one of our main advantages, thanks to a double pivot load cell system that facilitates maintenance and calibration. The cable routing through the structure ensures an orderly, clean and safe installation, as the cables are also covered with an anti-rodent metal mesh.

To guarantee durability and reliability, our product has a watersealed junction box with IP 67 classification, which makes it resistant to adverse conditions. In addition, it is certified according to European standards, ensuring that we comply with CE quality and safety standards.

Characteristics

Type	Metal weighbridge scale
Installation	Overground or embedded
Running height	290mm
Structure	Combination of beams model IPE
Sheet thickness	Model BP-SA sheet metal with a thickness of 6-8mm Model BP-SAR sheet metal with a thickness of 10mm
Steel type	On SR275JR profiles
Paint type	Polyurethane RAL 9505
Screw type	Cal 8.8 y 10.9
Dimensions	Modulable from 4 to 24 metres (see table)
Capacities	40t / 50t / 60t (20 divisions)
Load cells	Model CPC in standard installation. Consult other models.
Junction box	Aluminium IP67



Recessed installation

General features

The BP-SA industrial weighbridge scale is a versatile and efficient solution for weighing heavy vehicles. Attachable modules are assembled with transverse structures, creating platform compositions from 4 to 24 metres in length (other lengths available). You can choose between overground or embedded installation, with 1.5 metre wide modules for ease of transport.

Designed with hot-rolled profiles, this scale has a height of only ~290 mm, ensuring robustness and compliance with standards. Certified to European standards, it offers easy access to the load cells from the top, with a double pivot cell system and protection against dust and mud.

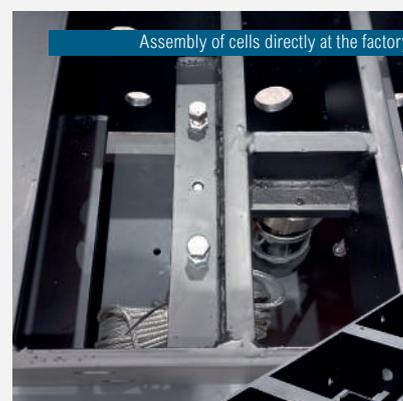
The top surface can be tear-drop or smooth (depending on model BP-SA / BP-SAR), and has adjustable stops. The structure incorporates cable channels to reduce risks. The civil work is economical thanks to its reduced dead weight, and optionally, metal plates are supplied for installation.

In addition, the watersealed junction box (IP 67) guarantees precision and lightning protection. The connection cable to the indicator is 15 metres (other lengths available). Also suitable for explosive atmospheres with EEx ia certified cells.

Assembly of cells in the factory

Mounting the load cells at the factory rather than on site has significant advantages, including accurate calibration, time savings, reduced errors, durability, improved quality control and faster customer service. This ensures efficient assembly work and greater control of the equipment..

Assembly options



Data

Options

- » Factory assembled cells
- » Replacement plates for civil works
- » Special widths
- » Central part of the scale
- » Cells assembled on replacement plates for civil engineering work
- » Metal ramps: 1m wide, 3m long and height adapted to the weighing platform
- » Lateral visual guide
- » Pit frame
- » Hot-dip galvanised finish
- » ATEX certification
- » Specific surface protection for very aggressive environments

Finishing / Painting

Painted metal finish with high anticorrosive power: cleaning and degreasing of surfaces by manual brushing according to NBE-EA-95.

Finished with 2-component polyurethane paint, corrosion protection for steel and galvanised steel, fast drying and with high mechanical resistance, black RAL 9505 with a slightly glossy finish.

Suitable for corrosion categories C1, C2 and C3 according to EN ISO 12944-2 as a single coat system with a minimum dry film thickness of 80 µm.

Other finishes on request.

Load cells

CPC model in its standard installation.

CPC CHARACTERISTICS

- » Load cell, with encapsulated strain gauges.
- » Laser welded enclosure ensuring IP68.
- » Capacity: 10t, 20t, 30t, 40t, 50t.
- » The metal body of the load cell is made of special steel with stainless steel protection with AISI 304 stainless steel casing.
- » Effective internal protection against strong lightning induced currents
- » Designed to avoid the use of screws during assembly, ensuring speed and avoiding fixing errors
- » Cable length 15 m. Diameter 5 mm.
- » Net weight: 5700 g.



- » All cells are supplied with the cable protected with rodent-proof metal mesh.

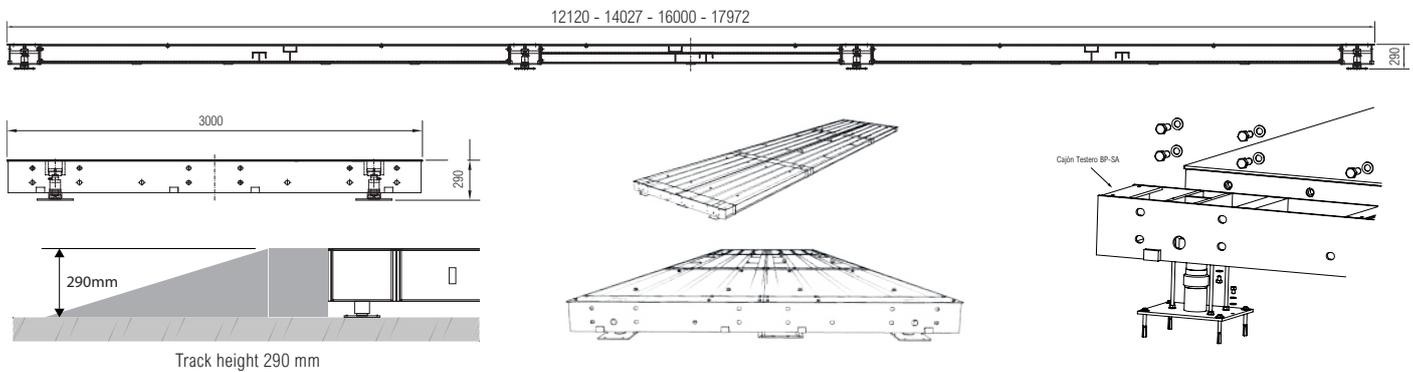
Certifications

Certified as EU Type according to EN45501:2014 with certificate number T11160 for industrial assemblies model EPEL-21.

Allows connection of **Orion**, **Orion Plus**, **Cyber Plus** and **ML500**, **CT-12 V-35** and **V-56**, **Tigris**, **DZN** and **DZ** indicators and platforms with approved cells.

Dimensions

Weighbridge made up of 4 and 6 metre modules, combinable up to 24 metres in length. (Other lengths available as an option)



Loading conditions

LIMITATIONS ON MOVEMENT ON THE WEIGHBRIDGE

Weighbridge designed for intensive use of vehicles with axle configuration approved and legal for free circulation on the road, expressly excluding forklifts, dumpers and vehicles for other uses. For uses other than those listed above, please ask our distributors.



Capacities References

Description	Dim. mm	Thickness Sheet thickness	No. of modules 4 x 1,5 m	No. of modules 6 x 1,5 m	Central structure	No. Cells	Capacity adjustment tonnes	Div. kg	References	Approved in range-finder
Weighbridge BP-SA - 12x3 metros (60 t / 20kg)	12120	6-8*	-	4	3	6	45/50/60	20	0062804000	Orion, Cyber
Weighbridge BP-SA - 14x3 metros (60 t / 20kg)	14030	6-8*	4	2	4	8	45/50/60	20	0062805000	Orion, Cyber
Weighbridge BP-SA - 16x3 metros (60 t / 20kg)	16000	6-8*	2	4	4	8	45/50/60	20	0062806000	Orion, Cyber
Weighbridge BP-SA - 18x3 metros (60 t / 20kg)	17975	6-8*	-	6	4	8	45/50/60	20	0062807000	Orion, Cyber
Weighbridge BP-SAR - 12x3 metros (60 t / 20kg)	12120	10	-	4	3	6	45/50/60	20	0062804000R	Orion, Cyber
Weighbridge BP-SAR - 14x3 metros (60 t / 20kg)	14030	10	4	2	4	8	45/50/60	20	0062805000R	Orion, Cyber
Weighbridge BP-SAR - 16x3 metros (60 t / 20kg)	16000	10	2	4	4	8	45/50/60	20	0062806000R	Orion, Cyber
Weighbridge BP-SAR - 18x3 metros (60 t / 20kg)	17975	10	-	6	4	8	45/50/60	20	0062807000R	Orion, Cyber

* Teardropped sheet metal