



INDUSTRIAL SOLUTIONS
WEIGHBRIDGES

WEIGHBRIDGES

BP-SAH

- 12, 14, 16 and 18 metre modules that can be mounted in a pit or pitless
- Mixed metal and concrete modules, with concrete already poured at the factory
- Economical civil works
- Double pivot cell system
- High resistance to wear and tear
- Cell wiring coated with rodent-proof metal mesh
- Hermetically sealed junction box (IP 67)

CONCRETE POURED IN FACTORY

Model
BP-SAH

CERTIFIED BY EPELSA



grupoepelsa.com

WEIGHBRIDGES

BP-SAH

Concrete poured in factory



BP-SAH 6-metre concrete modules

WEIGHBRIDGES BP-SAH

The BP-SAH Industrial weighbridge combines efficiency and versatility. With a modular design and high quality materials, it guarantees optimum performance.

The BP-SAH offers a significant advantage thanks to its modular design of mixed metal and concrete modules, already poured at the factory. This feature eliminates waiting times, allowing users to start work immediately, thus maximising process efficiency.

Flexibility and adaptability are other outstanding qualities of this scale. In addition, its floorstanding or recessed design and standard width of 1.5 metres simplify transport and installation, ensuring smooth and efficient logistics.

Its concrete surface and safety features make it essential in a variety of industrial applications.

Features

Type	Mixed metal and concrete weighbridge
Installation	Pit or Pitless installation
Running height	~ 290mm
Structure	Combination of hot rolled sections (type IPE, S275JR), reinforced (B500S) and factory poured concrete (H-300).
Sheet thickness	Each junction module is protected with a 6/8mm tear plate
Steel type	In profiles Steel S275JR
Paint type	Polyurethane RAL 9505
Screw type	Cal 8.8 y 10.9
Dimensions	Modulable from 6 to 26 metres (see table)
Capacities	30t / 40t / 50t / 60t (20 kg)
Load cells	CPC model with armoured cable in standard installation. Consult other models.
Junction box	Aluminium IP67

General

TIME OPTIMISATION.

The BP-SAH industrial weighbridge with mixed metal and ready-mixed concrete modules are designed for maximum efficiency and performance right out of the box, eliminating the usual pouring and setting times and allowing work to start immediately.

FLEXIBILITY AND ADAPTABILITY

Attachable modules bolted to transversal structures, where the load cells are located, to form versatile platforms of 6, 8, 10, 12, 14, 16, 18, 20, 22, 24 and 26 metres in length, with the possibility of adapting other lengths according to specific needs. For both above-ground and flush-mounted installation, each module has a standard width of 1.5 metres, which simplifies and reduces transport costs. Unloading can be done either by crane or high-capacity forklift: we have thought of every detail to make logistics smooth and efficient.

STATE-OF-THE-ART AND SAFE DESIGN

Our bridges are designed using state-of-the-art structural calculation software, combining hot rolled sections (IPE type, S275JR), reinforced (B500S) and high quality concrete (H-300). This allows us to reach a total height of only ~240 mm, achieving a rolling height of ~290 mm and a robustness in accordance with the structural requirements of the concrete and metrological requirements of our cells, complying with the DIN 8119 standard for road vehicles.

ACCESSIBILITY AND MAINTENANCE

We have simplified the assembly and access to the load cells and other elements from the top of the scale, which are placed in transversal structures: "drawers". The load cells are double pivot load cells with a support for the load cells and are protected with a dust cover, further preventing contact with dust, mud, etc.

STRUCTURE

The running surface is made of concrete, which prevents skidding and maintains a high resistance to wear. The scale has adjustable longitudinal and transversal stops at the ends. The structure is designed with tubes to channel the cables, avoiding unprotected cables. In addition, we offer robust and cost-effective civil works, depending on the strength of the installation floor, thanks to the low dead weight of our system. In specific situations, we can provide a set of metal plates that can eliminate the need for civil works.

Concrete poured in factory



Creation of modules and mesh



Concreting



Fixing



CPC load cells

Modulable from 6 to 26 metres (see table references)

Data

Options

- » Assembly of cells in the factory.
- » Runner guides.
- » Metal ramps for access to the weighbridge.
- » Set of ramp angles (entrance and exit)
- » Pit frame Specific surface finishes and protection, galvanised.
- » Installation in explosive atmospheres using EEX ia certified cells and components (see technical data sheet for components).

Finished / Painted

Paint for metal parts with a high level of anti-corrosion and black colour. Cleaning and degreasing of surfaces by manual brushing according to NBE-EA-95.

The metal parts will be finished with a 2-component, corrosion-protecting, fast-drying, mechanically highly resistant, 2-component polyurethane paint for steel and galvanised steel, 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 Cell

CPC model in standard installation
CPC FEATURES

- » Load cell, with encapsulated strain gauges.
- » Laser welded enclosure ensuring an IP68 rating.
- » 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.



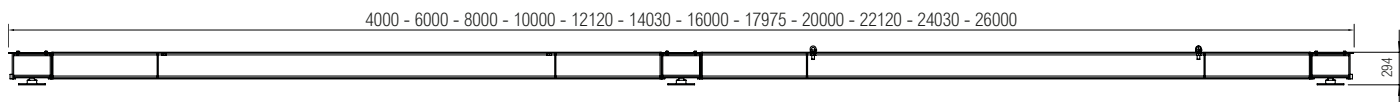
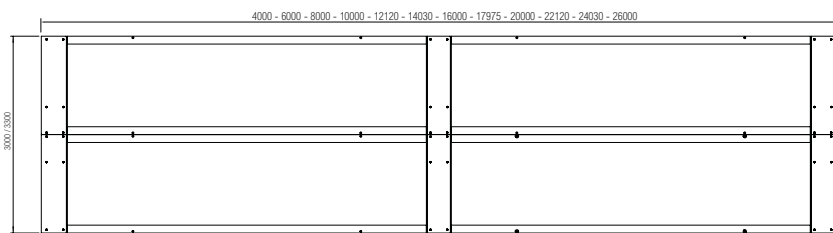
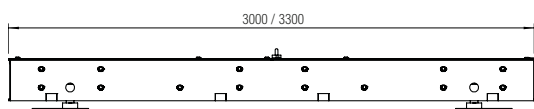
- » Length of connection cable and earth cable to indicator: 15 m. Diameter 5 mm.
- » Net weight: 5700 g.
- » All load cells are supplied with the cable protected with rodent-proof metal mesh.

Certifications

Certified as EU Type in accordance with EN45501:2016 under No. 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 consisting of 4 and 6 metre modules, combinable up to 26 metre measurements.



Loading conditions

LIMITATIONS ON MOVEMENT ON THE WEIGHBRIDGE

Weighbridge scale 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 consult our sales engineers.



4-wheeled trolleys
2,5 t per wheel
(forklift type)



Single Axle
13,5 t



Tandem
21,5 t



Tridem
28,5 t

Capacities

References

Description	Dim. mm	Concrete	Nº Modules 4 x 1,5 m	Nº Modules 6 x 1,5 m	"Boxes"	Nº Load Cells	Capacity adjustment tonnes	Div. kg	References.	Approved visors range
weighbridge BP-SAH - 4 x 3 m	4000	H-300	2	0	2	4	30t	20 kg	0170930000	Orion, Cyber
weighbridge BP-SAH - 6 x 3 m	6000	H-300	0	2	2	4	30t	20 kg	0170931000	Orion, Cyber
weighbridge BP-SAH - 8 x 3 m	8000	H-300	4	0	3	6	45t	20 kg	0170932000	Orion, Cyber
weighbridge BP-SAH - 10 x 3 m	10000	H-300	2	2	3	6	45t	20 kg	0170933000	Orion, Cyber
weighbridge BP-SAH - 12 x 3 m	12120	H-300	0	4	3	6	45/50/60	20 kg	0170934000	Orion, Cyber
weighbridge BP-SAH - 14 x 3 m	14030	H-300	4	5	4	8	45/50/60	20 kg	0170935000	Orion, Cyber
weighbridge BP-SAH - 16 x 3 m	16000	H-300	2	4	4	8	45/50/60	20 kg	0170936000	Orion, Cyber
weighbridge BP-SAH - 18 x 3 m	17975	H-300	0	6	4	8	45/50/60	20 kg	0170937000	Orion, Cyber
weighbridge BP-SAH - 20 x 3 m	20000	H-300	4	4	5	10	45/50/60	20 kg	0170938000	Orion, Cyber
weighbridge BP-SAH - 22 x 3 m	22120	H-300	2	6	5	10	45/50/60	20 kg	0170939000	Orion, Cyber
weighbridge BP-SAH - 24 x 3 m	24030	H-300	0	8	5	10	45/50/60	20 kg	0170940000	Orion, Cyber
weighbridge BP-SAH - 26 x 3 m	26000	H-300	4	6	6	12	45/50/60	20 kg	0170941000	Orion, Cyber
weighbridge BP-SAH - 4 x 3,3 m	4000	H-300	2	0	2	4	30t	20 kg	0170942000	Orion, Cyber
weighbridge BP-SAH - 6 x 3,3 m	6000	H-300	0	2	2	4	30t	20 kg	0170943000	Orion, Cyber
weighbridge BP-SAH - 8 x 3,3 m	8000	H-300	4	0	3	6	45t	20 kg	0170944000	Orion, Cyber
weighbridge BP-SAH - 10 x 3,3 m	10000	H-300	2	2	3	6	45t	20 kg	0170945000	Orion, Cyber
weighbridge BP-SAH - 12 x 3,3 m	12120	H-300	0	4	3	6	45/50/60	20 kg	0170946000	Orion, Cyber
weighbridge BP-SAH - 14 x 3,3 m	14030	H-300	4	2	4	8	45/50/60	20 kg	0170947000	Orion, Cyber
weighbridge BP-SAH - 16 x 3,3 m	16000	H-300	2	4	4	8	45/50/60	20 kg	0170948000	Orion, Cyber
weighbridge BP-SAH - 18 x 3,3 m	17975	H-300	0	6	4	8	45/50/60	20 kg	0170949000	Orion, Cyber
weighbridge BP-SAH - 20 x 3,3 m	20000	H-300	4	4	5	10	45/50/60	20 kg	0170950000	Orion, Cyber
weighbridge BP-SAH - 22 x 3,3 m	22120	H-300	2	6	5	10	45/50/60	20 kg	0170951000	Orion, Cyber
weighbridge BP-SAH - 24 x 3,3 m	24030	H-300	0	8	5	10	45/50/60	20 kg	0170952000	Orion, Cyber
weighbridge BP-SAH - 26 x 3,3 m	26000	H-300	4	6	6	12	45/50/60	20 kg	0170953000	Orion, Cyber