



INDUSTRIAL SOLUTIONS
WEIGHBRIDGES

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BP-HG 270

**OMNIDIRECTIONAL WEIGHBRIDGE WITH CONCRETE
SLAB ON GROUND OR RECESSED**

Concrete slab in 3 independent modules
Easy cleaning and assembly
Economical civil engineering
Longitudinal beams IPE-270



Model
BP-HG 270

CERTIFIED BY EPELSA



grupoepelsa.com



Weighbridge

BP-HG 270

WEIGHBRIDGE BP-HG 270

The assembly consists of 3 independent modules, made up of two longitudinal beams with an IPE profile. Each module forms an independent volume where the reinforced concrete slab will be located. The bolted joint of the three modules will form the scale.

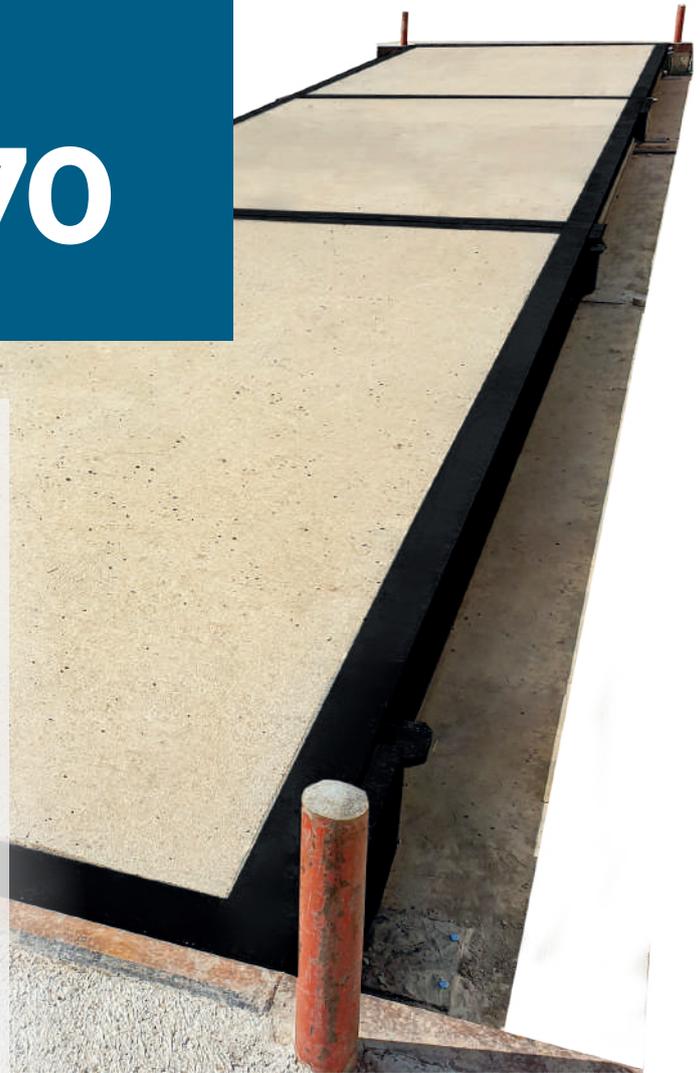
The useful width of the scale is 3.30 m, which facilitates the circulation and maneuverability of vehicles on it. Vehicle access is achieved, in the above-ground assembly, by means of concrete ramps belonging to the civil works, with a maximum slope of 10%.

It can easily support all types of vehicles with approved and legal axle configurations for free circulation on the road. Easy to clean with water jets or brushing (in the above-ground assembly) to remove dirt, thus increasing the useful life of the scale by removing residues that tend to remain wet for a long time.

Access to the longitudinal and transverse cells and stops is from the outside of the bridge, which facilitates assembly and maintenance work. The cell's double pivot system guarantees that the application is completely perpendicular to the cell, avoiding lateral stresses and moments that may introduce errors. It also allows the appropriate lateral movement for the scale. The cell rests on a dolly support that allows easy and comfortable movement to easily find the verticality of the cell. The cell support assembly is protected by a dust cover, further avoiding contact with dust, mud, etc. All the cell wiring is covered by an anti-rodent metal mesh.

The construction of the slab is designed to support the modules directly on the ground of the civil works, placing a disposable plastic between the slab and the ground to avoid the additional cost of lower formwork. The placement and fastening of the slab assembly (not included in the standard supply) is done without welding or bolted joints.

The handling for assembly can be done only with 4 hydraulic jacks, without the need for cranes or helpers.



Characteristics

Typo	Weighbridge with concrete slab	
installation	Above ground or embedded	
Rolling height	340 mm	
Structure	IPE 270 longitudinal profiles	
Concrete thickness	270mm	
Steel Type	S275JR	
Type of painting	2-component polyurethane paint RAL 9505	
Screw type	Minimum quality 8.8	
Dimensions	BP-HG 14m	14.48 x 3.3m
	BP-HG 16m	16 x 3.3m
	BP-HG 18m	17.52 x 3.3m
Capabilities	45t/20kg 60t/20kg	
Load cells	CPC 20t model. Anti-rodent metal mesh	
Junction box	Aluminum box 8 inputs - 1 output IP67	

General

- » Steel structure with concrete slab in 3 totally independent modules, allowing it to be moved.
- » IPE-270 longitudinal beams.
- » Supports all types of vehicles with legal axle loads for free circulation on the road.
- » Easy cleaning and assembly.
- » Self-pivoting cell system.
- » Easy transport and handling (no crane required).
- » Eight 20t CPC cells. Cable covered with rodent-proof wire mesh.
- » Assembly and access to load cells, sum box, stops and other assembly elements from the sides of the scale.
- » Approved for 3,000 divisions.
- » HIGH use regime.
- » High level anti-corrosion paint.
- » Robust and economical civil works.
- » Suitable for transport in 20-foot containers*.
- » Can be installed as a built-in scale.

*Except BP-HG 270 12x3.3m. Please consult if necessary.

POSSIBLE APPLICATIONS

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



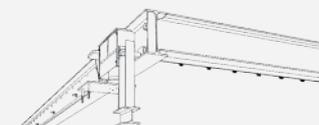
Load Cell



Screws



Suma box



Installation



Con struction of slab on ground



Assembling the slab



Cementing completed

Data

Options

- » Additional cable for display box
- » Scales with cells approved according to the European ATEX directive. Consult the factory for reference and price.

Certifications

EU-TEC approval of Model T11160 for industrial assemblies model EPEL-21 issued by the NMI of the Netherlands (Notified Body No. 0122). Allows the connection of visors and platforms with approved cells.

Finish / Painting

Cleaning and degreasing of surfaces by manual brushing according to NBE-EA-95.

Finishing with 2-component, fast-drying, highly mechanically resistant, corrosion-protective polyurethane paint for steel and galvanised steel, in black RAL 9505 with a slightly glossy finish. Suitable for corrosivity categories C1, C2 and C3 according to EN ISO 12944-2 as a single-coat system with a dry film thickness of 80 µm.

Load Cells

CPC model in its standard installation.
CPC FEATURES

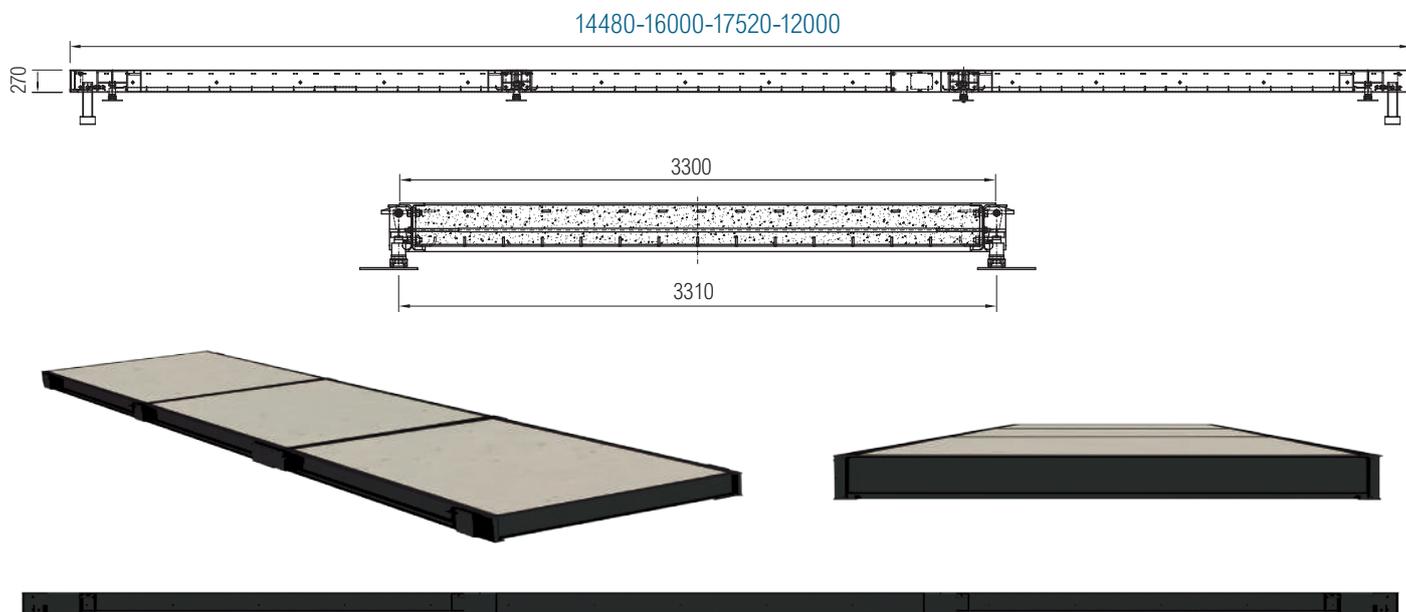
- » Load cell with encapsulated strain gauges.
- » Laser welded closure ensuring IP68.
- » Capacity: 10t, 20t, 30t, 40t, 50t.
- » Special steel cell metal body with stainless steel protection with AISI 304 stainless steel casing.
- » Effective internal protection against strong currents induced by lightning.



- » Design conceived to not use screws in assembly, ensures speed and avoids fixing errors.
- » Connection cable length and ground cable to indicator: 15 m. Diameter 5 mm.
- » Net weight: 5700 g.
- » All cells are supplied with the cable protected with anti-rodent metal mesh.

Dimensions

Omnidirectional weighbridge, above ground or recessed, with concrete slab, width 3.30 m



Loading conditions

LIMITATIONS ON CIRCULATION ON SCALES

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



Capacities References

Description	Dimensions meters	Thickness Concrete	N° Load cell	Capacity adjustment t	Div. kg	Approved range scopes	References
Weighbridge BP-HG 270 - 12 m (60 t / 20kg)	10,2 x 3,3	270 mm	8	60	20 kg	Gama Epelsa	0170704000
Weighbridge BP-HG 270 - 14 m (60 t / 20kg)	11,63 x 3,3	270 mm	8	60	20 kg	Gama Epelsa	0170705000
Weighbridge BP-HG 270 - 16 m (60 t / 20kg)	13,33 x 3,3	270 mm	8	60	20 kg	Gama Epelsa	0170706000
Weighbridge BP-HG 270 - 18 m (60 t / 20kg)	14,63 x 3,3	270 mm	8	60	20 kg	Gama Epelsa	0170707000