



BPPCE

BbbCE

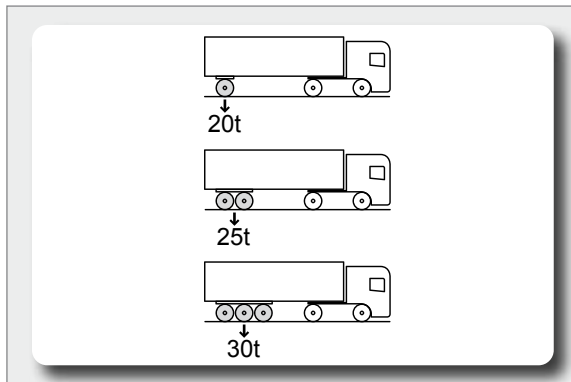
***Metal modular scale with crossbeams
on-ground and pit assembly.***

Omnidirectional.



DESCRIPTION

- The scales of the series BPPCE are metal scales with a modular building, to be used in the weighing of vehicles allowed to circulate on road.
- The bearing area is completely flat and can be installed on ground or built-in.
- The BPPCE scale is built in dimensions of 14x3, 16x3 and 18x3m with a maximum capacity of 60.000 kg, respecting the indicated loading conditions.
- The height of the bearing area is only 285 mm in the Standard version and of 300 mm in the different versions with cubicles.
- The scale is made of 4 cross headboards which contain the load cells (2 cells each headboard) and 6 modules of 1500 mm in width which are inserted in pairs between the headboards. The length of the modules varies according to the dimensions of the scale.
- The headboards are profiles of steel S235JR. The modules are with outline S235JR of HEA-180 and HEA-160 united transversely among them. The bearing area is made of tear sheet 6/8 mm thick welded in the modules and screwed in the headboards. Both the headboards and the modules contain the holes which can be manipulated with eyebolts.
- Access to the load cells and to the limits is done from the area of the scale, through the sheets screwed to the headboards. The limits are situated in the 4 corners of the scale.



Loading conditions.



Cross headboards with 2 load cells.



Access to the load cells through the headboards.

- The scales are delivered with two component polyurethane paint in blue colour RAL 5004. The screwing is galvanized and its quality is 8.8 except in those auxiliary screws lower to M14.
- The modular structure facilitates a comfortable transport and easy use for the assembly. The design of the modules and the headboards make possible the inclusion of any of the scales of the series BPPCE in a container OPEN TOP of 20 feet.
- The collecting of the weight is done through the cells of analogue compression, although it can also be adapted to other type of load cells for special requests. The display of the weight and the different operations which can be done of the weight data vary according to the indicators or equipment that the customer chooses according to his/her necessities.

Possibilities of having the load cells installed in factory

- The load cells can be installed in the factory with simple frame like a option. In this way the process of the assembly becomes even more comfortable and easy.

With this option, the cells are given blocked in its position, trapped by its inferior sheet, which is blocked with the headboard. After the assembly of the scale the cabling through the modules the cells are released and scale is ready to weight.

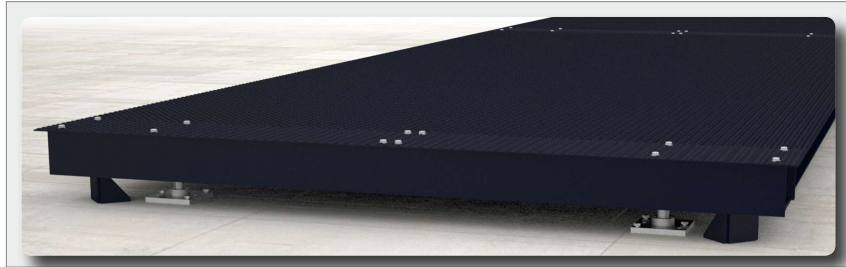


VERSIONS

To adapt our scales to the maximum to the use of the customer the scales BPPCE offer the possibility to be installed on ground and in-built, besides they offer the following modalities to adapt better to the building work and to facilitate the assembly in every case.

Standard version

- To support the load cells it is necessary a foundation design based on concrete footings. The sheets under the load cell and the limits are in-built in the registers of the concrete footings. These registers must be filled in with concrete after the assembly of the scale.



Version with simple frame

- The scale is installed on a foundation design based on concrete footings or on a concrete paving stone. It does not need any register or pre installed rooted plated. The cells must be assembled on the metal sheets, which are 15 mm thick and which even include the movement limits welded in factory. These sheets are rooted with screws and espits directly in the concrete with the scaled already assembled. This option is with cells assembled in the factory.



Version with large frame

- The scale is installed on a frame of big sheets, 10 mm thick united among them and they share the effort on the ground. This option needs a compact soil with a minimum resistance of 2kg/m² in the area where the scale is installed.



ACCESORIES TO ACCES THE WEIGHING AREA

The metal ramps and headboards can be installed after the assembly of the scale, with them the weighing process can start immediately.

Metal ramps 1500 mm in width

- The access to the weighing area is done through a pair of ramps 1500 mm thick in the entrance and/or the exit of the scale, covering the whole width of the same.

This ramps have a structure of tubular outline and the area in tear sheet 6/8 mm thick.



Metal ramps of 1000 mm in width

- The access to the weighing area is done through a pair of ramps of 1000 mm in width in the entrance and/or the exit of the scale, so that the central part is left free and each wheel rail of the lorries circulates in one of these stretches of 1000 mm.

These ramps have the structure in a tubular outline and the area in tear sheet of 6/8 mm thick.



Headboards

- They allow the building of ramps on the ground after the assembly of the scale, acting as a retaining wall. The headboards must be rooted in the civil work or they are delivered welded when they are included in big cubilajes. They have an IPE outline, with claws to be fixed on the ground or the concrete to build the ramps.



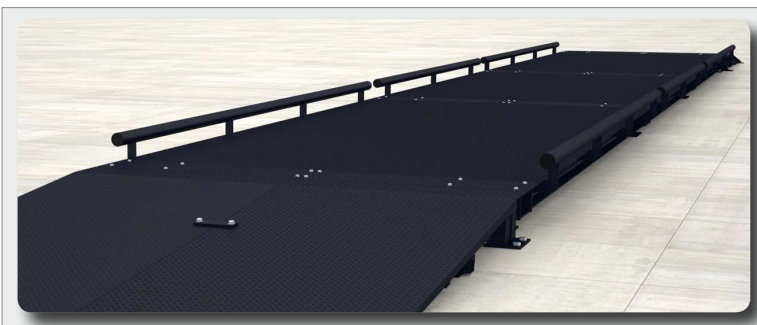
Perimeter angles

- To finish the access ramps or the ditches when they are in-built scales.



Bearing guides

- Railings with a tubular outline to guide the lorry on the bearing track.



General process of the installation with simple frame and cells assembled

1. Place the 4 headboards. If they are available in the possibilities of the installed cells.



2. Place the 6 longitudinal modules, in pairs, between the headboards.



3. Place the access sheets to the cells and limits in the headboards.



4. Finish the civil work or place the accessories of access in the desired weighing area.



TECHNICAL SPECIFICATIONS

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Electronic

Standard load cells	GIP 20t. Analogue. In stainless steel. IP68. 3000 d OIML
Junction box	In stainless steel IP65.

Descriptive table of the scales BPPCE standard

Dimensions (length x width)	Height (mm)	Height with cubicle (mm)	Capacity (t)	Fraction (kg)	Number of cells	Cell model
14x3 m	285	300	60	20	8	GIP 20t
16x3 m	285	300	60	20	8	GIP 20t
18x3 m	285	300	60	20	8	GIP 20t

Table of weights and dimensions

Scales

Scale	Number of headboards	Number of modules of 3 m.	Number of modules of 5 m.	Number of modules of 6 m.	Total weight (kg)
14x3 m	4	2	4	0	7160
16x3 m	4	0	4	2	8040
18x3 m	4	0	2	4	8874

Scales components

Components	Dimensions (mm)	Weight (kg)	Main outline
Module of 3 m.	2845 x 1500 x 180	1000	HEA-180 / HEA - 160
Module of 5 m.	4845 x 1500 x 180	1100	HEA-180 / HEA - 160
Module of 6 m.	5845 x 1500 x 180	1300	HEA-180 / HEA - 160
Standard headboard	2920 x 350 x 180	200	12 mm handrail

Accessories

Components	Dimensions (mm)	Weight (kg)
Cubicle (pair of sheets)	3250 x 1000 x 60	200
Simple frame	2900 x 350 x 300	260
Ramp of 1500 mm of width	3275 x 1500 x 300	650
Ramp of 1000 mm of width	3275 x 1000 x 300	420
Headboard	270 x 3000 x 140	150

Possible configuration

Version	Standard version	Version with simple cubicle	Version with big cubicle
Dimensions	14 x 3 m. 16 x 3 m. 18 x 3 m.	14 x 3 m. 16 x 3 m. 18 x 3 m.	14 x 3 m. 16 x 3 m. 18 x 3 m.
Installation	On-ground In-built	On-ground In-built	In-built
Configuration of the cells			
Cells installed in the factory	Standard: NO	Standard: YES	Standard: NO Optional: YES
Model of cells	Standard: GIP Optional: GIPD HBMC16A HBMC16i	Standard: GIP Optional: GIPD HBMC16A HBMC16i	Standard: GIP Optional: GIPD HBMC16A HBMC16i
Configuration of the access accessories			
Ramps of 1000 mm in width	None. Only entrance. Entrance and exit.	None. Only entrance. Entrance and exit.	None. Only entrance. Entrance and exit.
Ramps of 1500 mm in width	None. Only entrance. Entrance and exit.	None. Only entrance. Entrance and exit.	None. Only entrance. Entrance and exit.
Headboards	None. Only entrance. Entrance and exit.	None. Only entrance. Entrance and exit.	None. Only entrance. Entrance and exit.
Configuration of the perimeter angles			
Angle for ramps of building	For on-ground versions.	For on-ground versions.	For on-ground versions.
Angle for the ditch of the in-built scales	For in-built versions.	For in-built versions.	For in-built versions.

Other possible options

- **OPTIONAL LOAD CELLS**
GIPD 20 t. Digitals.
HBM C16A Analogues.
HBM C16i Digitals.
- **SPECIAL PAINTING**
- Beams and gushed crossbeams , with special paint.
- **INDICATORS**
- They can be used with width types of weight indicators. The type of indicators we sell go from the most basic weight indicators (weight-tare indicators with or without printing) to indicators with special functions (alphanumeric, with connection to PC, with data base management, with control of traffic lights, for especial zones) . In this way we facilitate to the customer the possibility to choose the best solution for his/her necessities in the management of weight.



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