



**DINI AR GEO**  
Scales - Weighing systems

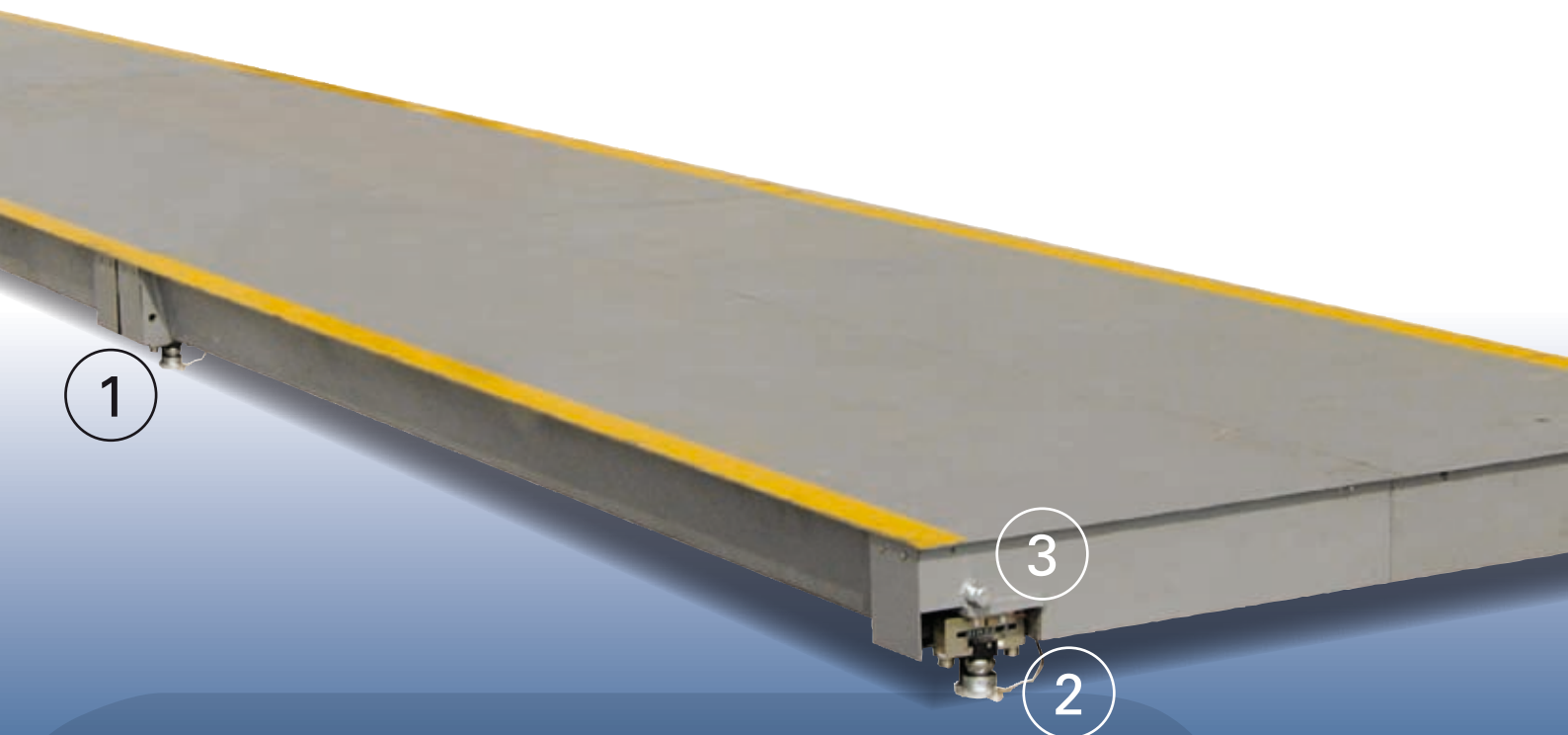


electronic modular  
**WEIGH BRIDGE**

# Electronic modular weigh bridge

## WBSA type "America" series: painted steel load surface

- The strong and rigid load surface in sheet steel, with 10mm thickness, ensures the maximum integrity withstanding all types of redundant exertion or strain.
- The absence of trapdoors and nuts on the transit surface guarantees stability and silentness.
- Extremely rigid structure, in moulded reinforced arc-welded sheet steel.
- Perfect distribution of the forces, for an optimal and precise weighing in all conditions.
- Protection from electric discharges, lightning, or power surcharges; complete with braids for grounding.



- Advanced anticorrosive treatment of the materials, obtained through double layer painting, with rust-proof varnish and a subsequent layer of polyurethane varnish, used in the naval industry.
- The quality of materials and the technology used in the development, together with the oversizing

of the structure, guarantee the maximum resistance in any environmental condition and to any strain, as well as a long-lasting duration of the platform.

- The smooth surface of the platform eases the cleaning operations of the weigh bridge.

**1** Near the load cells there are removable covers, which allow access for ease of maintenance.

**2** Double shear beam load cells in IP68 nickel-plated steel together with spherical selfcentering oscillating joints, which compensate for all types of thermal expansion.

**3** Adjustable control stops, against knocks and horizontal stresses.



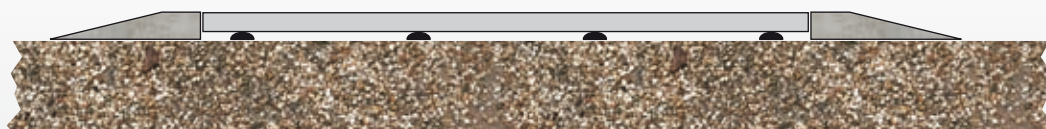


Sturdy, accurate and efficient, this weighbridge guarantees the best weighing performance in any environmental condition.

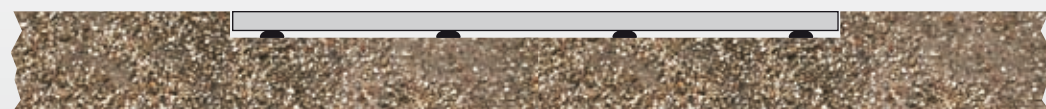
- The reduced weight and size of the modules which make up the platform, particularly ease the transport, handling, and installation.
- Simple and bolt together assembly.
- The modular construction enables you to lengthen the weighing surface before or after initial installation if required.



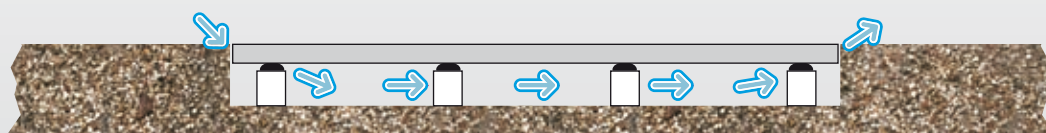
The low profile design of the platform allows for installation without a pit as well as a flush floor installation (with pit):



- without pit with ramp



- earthed, with pit not very deep



- earthed, with deep ventilated pit

Code(*)	Dimensions (metres) L x P x H	Nr. of Cells	Number of modules	Capacity Kg (**)	Division kg
WBSA <b>9</b>	9 x 3 x 0,44	6	4 x (1,5 x 4,5m)	30000 / 50000	10 / 20
WBSA <b>14</b>	14 x 3 x 0,44	8	6 x (1,5 x 4,67m)	30000 / 60000	10 / 20
WBSA <b>18</b>	18 x 3 x 0,44	8	2 x (1,5 x 6,4m) + 4 x (1,5 x 5,8m)	30000 / 60000	10 / 20

(\*) note: all the versions are approvable

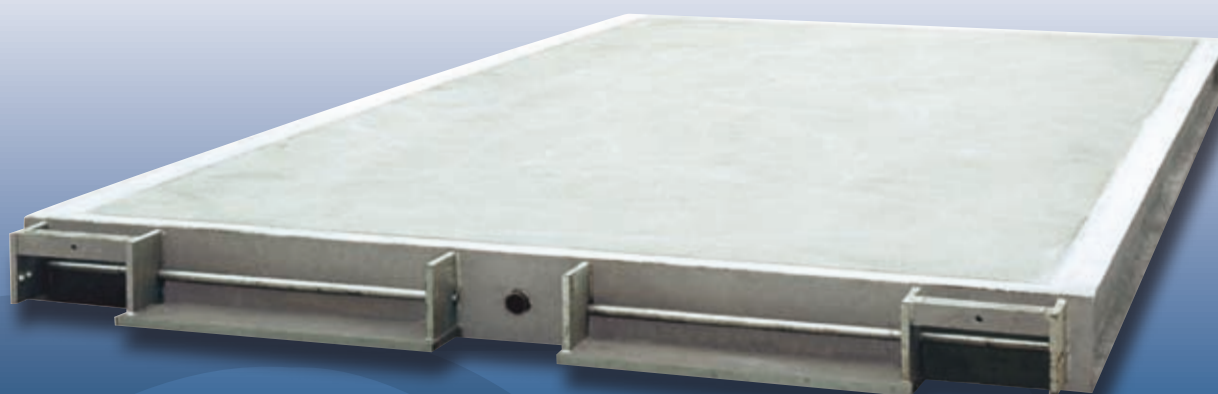


(\*\*) note: the dual range allows to automatically switch the weighing division, obtaining better accuracy on the lighter weights and greater capacity of the weighing system.

# Electronic modular weigh bridge

**WBSE type "Europe" series:** load surface in reinforced concrete, galvanised or painted steel

- The load surface in reinforced concrete ensures the maximum integrity withstanding all types of force.
- Perfect distribution of the forces for an optimal weighing.
- Advanced anticorrosion treatment of the materials, obtained through sandblasting, 50 micron painting with epoxy zinc rust-proof varnish and a subsequent 50 micron layer of polyurethane varnish, used in the naval industry.



also in ATEX version



- The quality of the materials and technology used in the development guarantee the maximum resistance in any environmental condition and to any strain, as well as a long-lasting duration of the platform.
- The weight and reduced size of the modules which make up the platform, enable ease of handling, transportation and installation compared with traditional weighbridges.

Near the load cells there are removable covers, which allow access for ease of installation and maintenance.

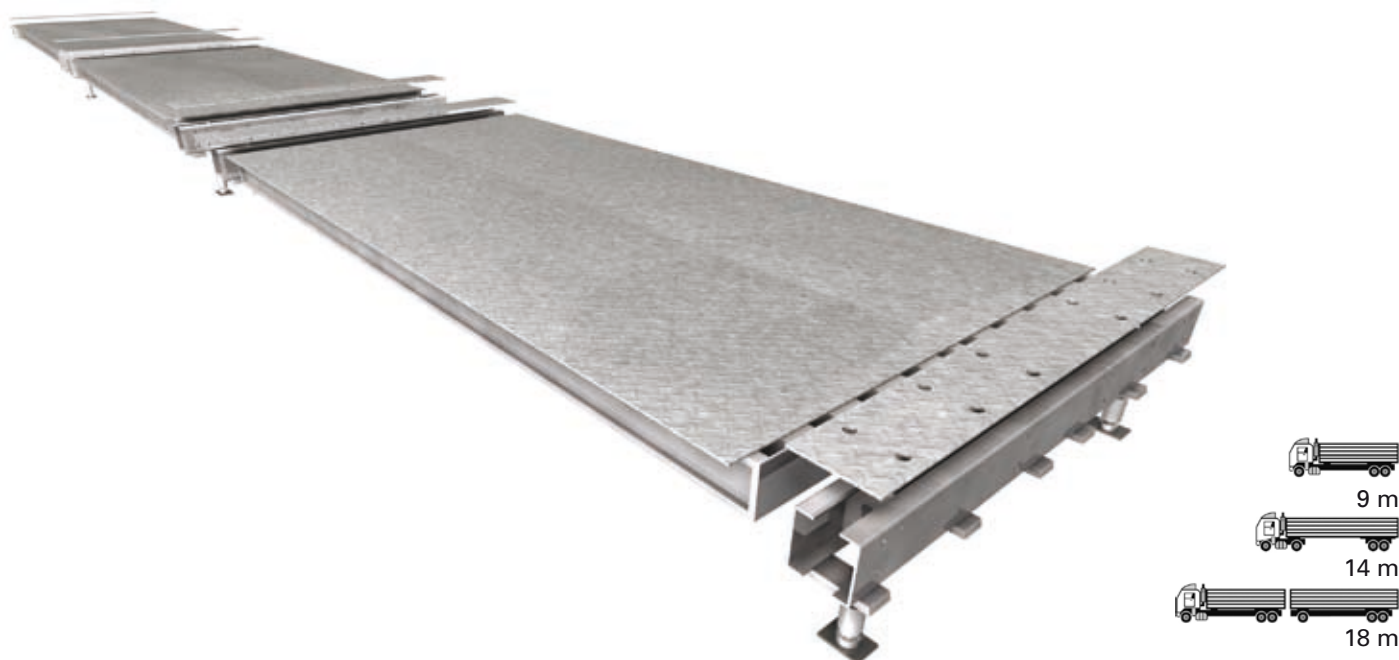
Compression load cells (analogue or digital), in IP68 stainless steel, fitted with built-in restorable surge arrestors, for protection from electrical discharges and lightning.

Available in reinforced concrete as well as in chequer plate.



Reliable, accurate, and extremely sturdy, guaranteeing quality and precision in any environment that it's used.

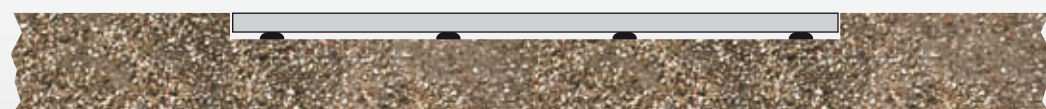
- The modular construction enables you to lengthen the weighing surface before or after initial installation if required.
- Available also with a painted striated sheet steel surface (also galvanised, upon request) with an 8 mm width and a structure obtained using IPE beams, ensuring the maximum rigidity.



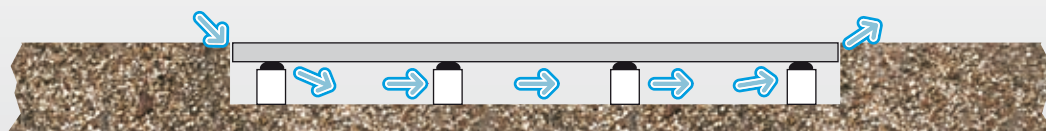
The low profile of the platform allows an installation without a pit as well as a flush floor installation (with a pit):



- without pit with ramp



- earthed, with pit not very deep



- earthed, with deep ventilated pit

Code(*)	Dimensions (metres) L x P x H	Nr. of Cells	Number of modules	Capacity Kg (**)	Division kg
WBSE <b>9C3</b>	9 x 3 x 0.36	6	1 x 5m; 1 x 4m	30000 / 50000	10 / 20
WBSE <b>9C4</b>	9 x 3 x 0.36	6	1 x 5m; 1 x 4m	20000 / 40000	5 / 10
WBSE <b>14C3</b>	14 x 3 x 0.36	8	2 x 5m; 1 x 4m	30000 / 60000	10 / 20
WBSE <b>14C4</b>	14 x 3 x 0.36	8	2 x 5m; 1 x 4m	40000 / 80000	10 / 20
WBSE <b>18C3</b>	18 x 3 x 0.36	8	3 x 6 m	30000 / 60000	10 / 20
WBSE <b>18C4</b>	18 x 3 x 0.36	8	3 x 6 m	40000 / 80000	10 / 20

(\*) note: all the versions are approved



(\*\*) note: the dual range allows to automatically switch the weighing division, obtaining higher precision on lower weights and a higher capacity of the weighing system.

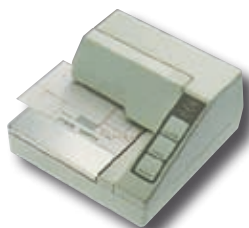


## Electronic modular weigh bridge:

### 3590 "AF03" weight indicator



Weight repeater with 6 digits 60 mm high, highly efficient LED matrix display, for viewing in full sunlight



Printers for tickets; continuous module printers



Bar code or badge reader; serial line interfacing or keyboard emulation



QWERTY type keyboard in order to ease the operations (also QWERTZ and AZERTY)



Ethernet or WiFi or Modem radio for integration of the scale to the computer system



16 bit analogue output programmable as:  
0 - 10Vdc; 4 - 20mA; 0 - 20mA



RS485 or RS422 Interface



Expansion of 4 digital inputs + 8 relay outputs for managing automatisms and configurable set points



DGT: high performing  
Digital junction box



Management of automatism



Second indicator for  
remote work station





Computer PC

## Main functions

- Simple weighing and printing of the weight data
- In/out weighing with management of single vehicles or with trailer.
- "A+B" function, or, in other words, simultaneous weighing on two independent platforms, with possibility of viewing the single weight and its sum.
- Storage of the input weighs, through weigh identification code (ID) or plate of the vehicle; automated weighing; management of badge and bar code readers.
- Management of external automation, such as control lights, sway bars, photo cells, thanks to the 2 fitted inputs and the 3 outputs.
- Management of various databases: customers (500), materials (500), vehicles (500), expandable with WinTruck on PC
- Completely configurable printouts; printing of the weigh data on continuous module, ticket, or cash journal.
- Automatic recalibration warning, useful for the periodic verification of the system.
- Diagnostic function of the load cells, of the inputs/outputs, of the analogue output and of the main hardware components.

### Available options:

- Alibi memory, for fiscal verification of the weighs made.
- Memory card, for storing all the executed weighs; the stored data is completely configurable
- ATEX version 
- Approvable 



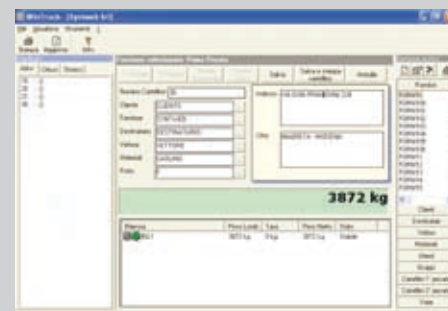
Memory card writer,  
complete of card



Touch screen complete of  
smart card reader, for advanced  
self-service systems

## WinTruck: Optional application programme

for managing the input  
and output weighing  
operations:



- Databases of Suppliers, Customers, Consignees, Materials, Couriers.
- Storage of all the weighs made with possibility of printing or exporting the data.
- The data is exchanged in XML format (extensible mark-up language) which guarantees the greatest degree of compatibility with the most widespread systems in the market.
- Management and Printing of input/output tickets totally configurable by the user with Windows compatible printers or with serial printers/labellers.
- Limitation of the allowed functions depending on the operator that is connected.
- Storage/export of the data on any DBMS (database manager system) which can make a OLE DB provider OLE DB (access driver in ADO technology version 2.6) .
- Importation of data upon customer specifications from a .CSV file.
- Management of alibi memory for approved systems.

## Completely customizable printing of tickets or cards

YOUR LOGO		
INPUT		
INPUT DATE 15/01/2007	INPUT HOUR 10:00	PROGRESSIVE NUMBER 30
PLATE AA123BB	MATERIAL CLAY	
CUSTOMER / SUPPLIER SMITH LTD		
MEMORY NUMBER 1	INPUT WEIGHT kg 5000	
OUTPUT		
OUTPUT DATE 15/01/2007	OUTPUT WEIGHT kg 6000	
OUTPUT HOUR 11:00	INPUT WEIGHT kg 5000	
MEMORY NUMBER 1	NET WEIGHT kg 1000	

*****	
MARIO ROSSI SRL	
EXPORT	
AUTOMEZZO : SCANIA	
TARGA : BR12345F	
MATERIALE : SABBIA	
15/05/06 10:43	
ID : 1	
ENTRATA : 4000kg	
*****	
	
CRAT	
USCITA : 2000kg	
SCARICATO : 2000kg	



Dini Argeo, with its Assistance Network present all over Europe, guarantees a qualified and efficient post-sales Service offering:

- Installation and testing.
- Metrological Verification
- Technical assistance, spare parts, and programmed maintenance.
- Telephone support and rapid intervention service.
- Control and calibration service with release of test report according to the EN 45501 norms.

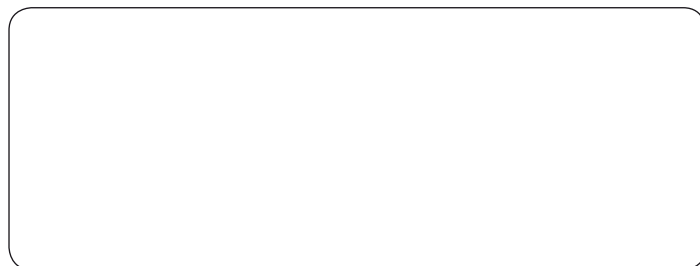
From defining the specific needs in the purchasing phase to the post-sales assistance, Dini Argeo offers a reliable and highly qualified support for a complete all-inclusive service.



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