

AGGREGATES & READY MIX RFID Truck Scale – 18x3 m

Several weighing systems used by Buzzi Unicem for the sale of bulk cement, have been supplied by IBR SpA.



Technical

- 18x3 m Weighbridge
- Capacity 60t
- RFID Reader
- **Indicator Extrim K54**
- Database with IBR Software



The entire plant is made by weighbridges 18x3 m. located near the reception office and some other weighbridges, made by different lengths, located under the silos containing the cement.

The truck goes on the weighbridge located near the reception office and the driver identifies himself by an RFID badge; an Extrim K54 weight indicator connected to an RFID reader sends to a PC the weight of the truck and the data contained in the badge, the PC (connected to the host) checks if the customer linked to the badge has a pending purchase order for cement, which type and quantity. Once this procedure has been passed correctly the truck can go to the weighbridge located under the silo containing the cement. The truck driver identifies himself again by the RFID badge; if the silo contains the right product (the one mentioned in the purchase order), the truck can be loaded until the maximum ordered quantity or the maximum capacity of the truck is reached (these info are stored in the RFID badge). Once loading is complete the tare weight (previously stored on the weighbridge near the reception office) and the gross weight (stored on the weighbridge under the silo) will be combined so that the net weight of the product will be calculated automatically, together with some other data, such as customer's name, number plate, driver's name, date, time, product's name. All data will be stored in the main database and a printed report will be given to the driver. In case the truck has gone under a different silo (not containing the right type of cement), the reading of the RFID badge will prevent the loading. Both the hardware and software parts of the entire system have been designed, developed and manufactured by IBR SpA. The cement plant has saved time and resources since the system allows to monitor all the accesses to the plant and also allows to respond to the orders which have been placed by the customer, with the highest level of satisfaction by everyone.