



Belt Scales



RICE LAKE[®]
WEIGHING SYSTEMS • Europe

To be the best by every measure[®]

www.ricelake.eu

Belt Scales

Rice Lake Weighing Systems offers a broad delivery program of Master belt scales. Six different models guarantee the possibility of one or more alternatives for every application. Within different markets, there are many ways to use a belt scale to measure the actual flow on a conveyor belt which can also be used for dosing your product. Examples of markets in which belt scales are frequently used are the food, recycling, chemical, and tobacco industries, steel, animal feed, and compost production, sand and gravel quarries and harbor logistics.



BS143

The BS143 model weighs three idlers on an inner frame that is supported by four load cells. This makes it the most accurate belt scale and is particularly qualified for higher capacities and high belt speeds. It is often used in OIML certified applications at harbors for loading ships and trucks, and to offload bulk cargo. The frame is custom made using the specifications of the conveyor belt, making it suitable for most models of belt conveyors.



BS221DB

The BS221DB model consists of two arms, each equipped with a pivot and a load cell, that are mounted to the outside of the side supports of the conveyor belt. The idler or weighing roller will be mounted on top of both arms. This model provides easy assembly and good accessibility for service. The BS221DB is suitable for most belt widths and capacities, which makes it applicable in various market segments.



BS211

The BS211 model consists of an inner frame that is mounted in two friction-free pivots on one end and at a load cell on the other end. An idler is mounted on the inner frame. The pivots absorb the tensile stress in horizontal direction, creating a very solid weighing frame that is also suited for heavy-duty applications.



BS311

The BS311 model consists of an idler or roller placed on a simple load cell beam, which makes it a very cost effective solution. Suitable for belt widths up to 1000 mm and belt speeds up to 1,5 m/s. This frame is often used in dosing belts that can regulate the capacity of a bulk flow using the measured value and a controlled belt speed.



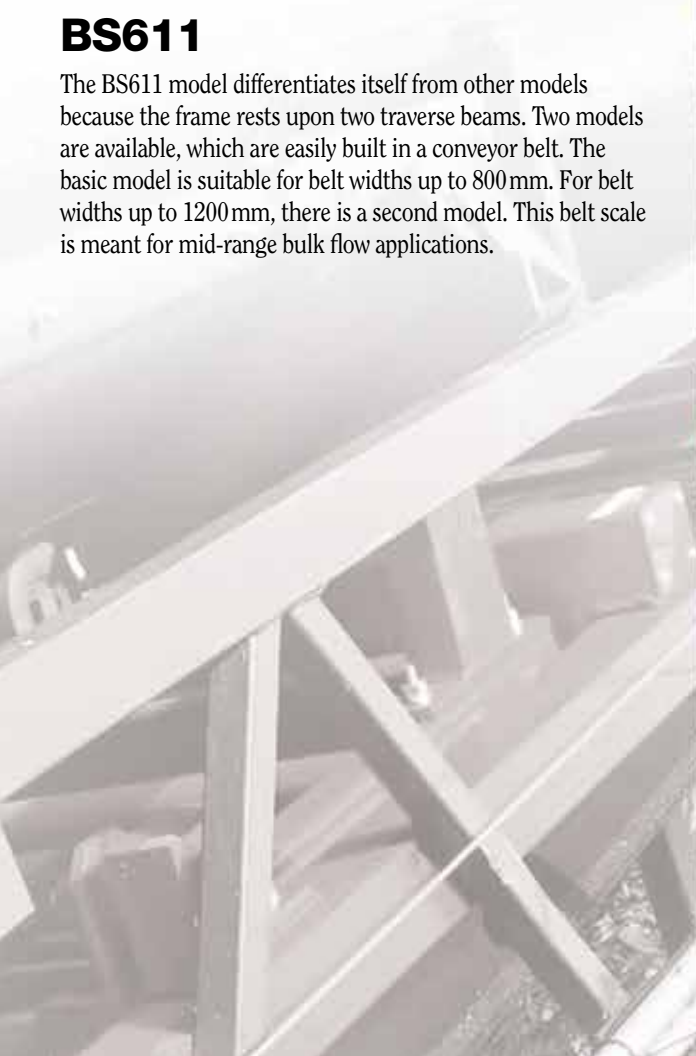
BS421

The BS421 model is made for low-load applications, and is often used in the food and chemical industry. A plane roller is supported on both sides by a load cell construction. This increases tare precision, making it possible to measure the slightest bulk flows. Applicable to horizontal belt widths up to 1600 mm and belt speeds up to 1,0 m/s. Because of the open design of this model, the belt can be cleaned easily.



BS611

The BS611 model differentiates itself from other models because the frame rests upon two traverse beams. Two models are available, which are easily built in a conveyor belt. The basic model is suitable for belt widths up to 800 mm. For belt widths up to 1200 mm, there is a second model. This belt scale is meant for mid-range bulk flow applications.



Belt Scales



Operation of Belt Scales

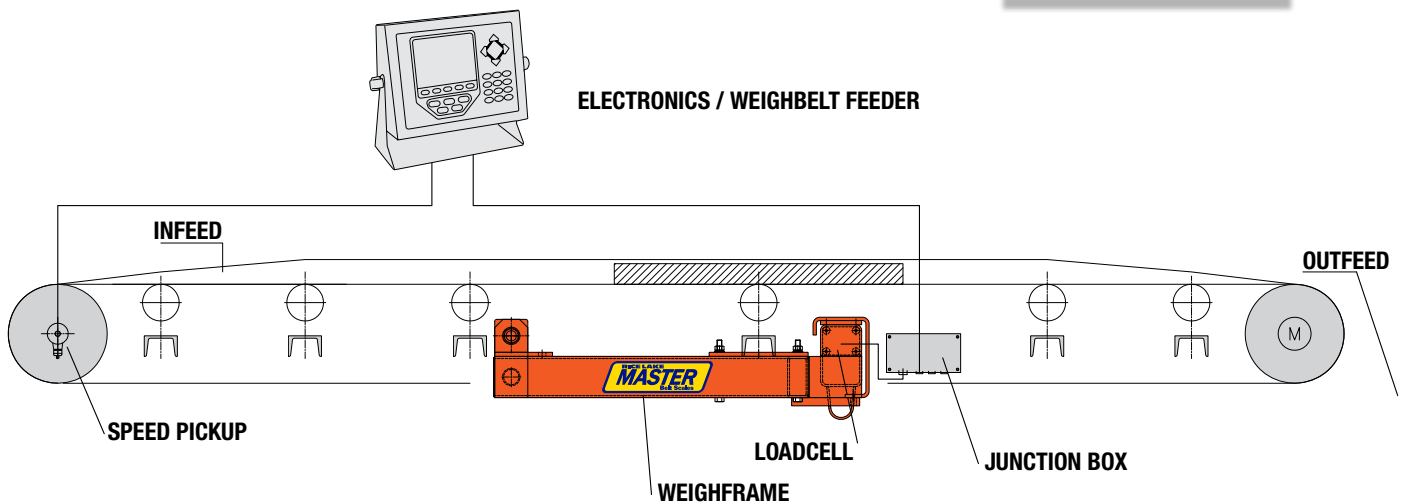
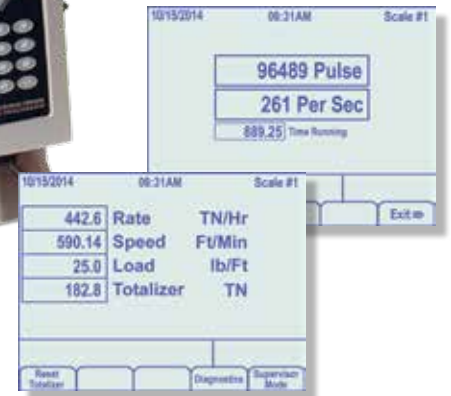
A belt scale consists of a weigh frame with one or more load cells, a speed sensor and a weigh processor, which integrates the two signals, load and speed, into the weight per hour.

The selection of the weigh frame and speed sensor is determined by the requested accuracy, variables like belt speed and inclination of the belt, the structure of the transport belt, and external circumstances like moisture and aggressive environment.

The execution of the weigh electronics is determined by the requested functionality (only measurement of the product quantity or the need to control the dosing of the product) and the way of communication with a PLC/PC (or other).



Easy-to-read display shows rate, speed, real-time load, and total material weighed across the belt since last reset. Configuration is intuitive and fast.



Your Rice Lake Weighing Systems distributor is:

RICE LAKE
WEIGHING SYSTEMS • Europe

To be the best by every measure®

Rice Lake Weighing Systems Europe B.V.
Weiland 11 • NL-6666 MH Heteren • The Netherlands
TEL: +31 (0) 26 472 1319 • FAX: +31 (0) 88 234 9100 • www.ricelake.eu

An ISO 9001 registered company © 2015 Rice Lake Weighing Systems PN 166937 1/15
Specifications subject to change without notice.