

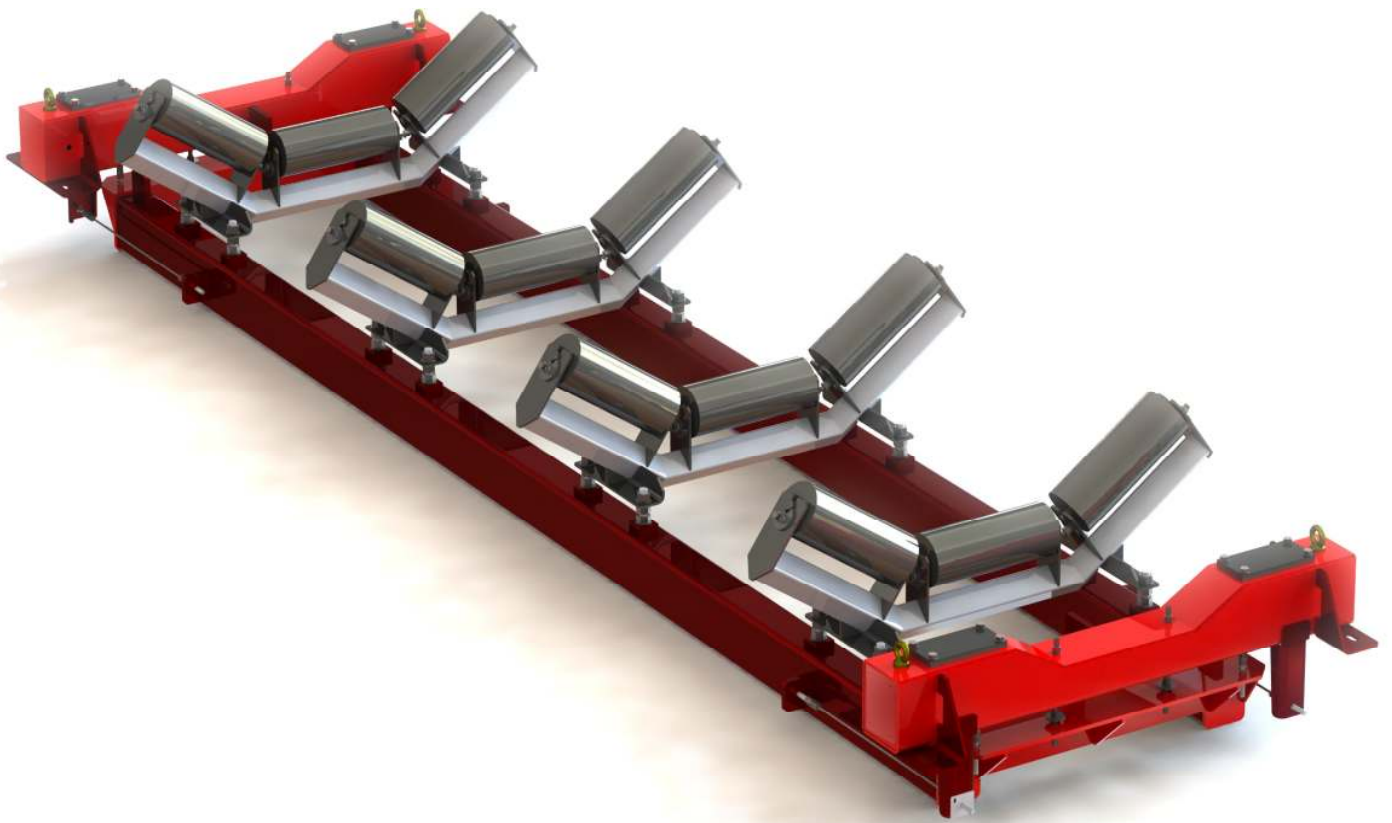


## Belt Weighers

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High Speed - Multi Idler

BW2i & BW4i Models



**Reliable and Repeatable Accuracy**  
**Rugged Construction**  
**Inherently Stable Full Floating Weigh Frame**

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Dynamic Weighing Specialists

Solutions for weighing materials on the move

## Accuracy

- BW2i Two Idler Belt Weigher  $\pm 0.5$  to  $\pm 1.0\%$ .
- BW4i Four Idler Belt Weigher - better than  $\pm 0.5\%$ .

## Flow Rate

- Standard Flowrates up to 5,000tph
- Higher rates available - *contact us*

## Dimensions

- Standard Belt Widths- 600 to 3,000mm
- For typical Idler spacing of 1m:  
BW4i = platform length of 4m  
BW2i = platform length of 2.5m



## Mechanical Features

- Inherently Stable Full Floating Weigh Frame
  - *measures the downward force of the full product mass through the belt, direct to the load cells, similar to precision static weighing devices*
  - *less sensitive to error arising from variations in belt tension and other external operating factors than other design options*
- Macro and micro adjustment
  - *a critical factor in achieving reliable and repeatable dynamic weighing*
- Shear Beam Load Cells
  - *precision quality load cells protected with overload stops and avoid damage if the maximum load is exceeded*
  - *multiple load cells design increases accuracy*
- Trailing Wheel Assembly with Speed Encoder
  - *designed to stay in contact with the return belt*
- Calibration racks
  - *making the calibration process simple and easy.*

### Optional:

- Weigh Quality Idlers
  - *to achieve maximum accuracy and weighing repeatability*
- Controller Display mounted in a field Enclosure
  - *IP rated enclosure model chosen to suit the application environment*
- Integrated Calibration Check Weights
  - *to facilitate calibration checking by operator*

## Weigh Frame Construction

- Fabricated Mild Steel, or
- Stainless Steel

## Surface Treatment Options

- Galvanised
- Epoxy paint system

## Modular Digital Weigh Control System

### Modweigh MW95 Controller Features

- Flowrate measurement
- Material Totalisation
- Totalised Pulsed Output
- Automatic Belt Zeroing
- 4 or 8 Programmable Digital Inputs
- 4 or 8 Programmable Digital Outputs
- Modbus communications
  - independent RS232 & RS485 ports
- 4-20mA Flowrate Output
- Easy to use menu selection for settings
- Removable P-Module holds calibration settings
- Field Software Upgrades
- Customisable Graphics Display
- Operator lockouts
- Connect Multiple Transmitters to One Display
- 24Vdc power supply



### Additional Options

- Second 4-20mA (analogue) input/output card

**The Active Weighing Solutions Belt Weighers are designed for use in continuous heavy duty situations with outstanding performance in harsh, dirty, and moist environments.**

**Our engineers will work with clients to determine the most effective Belt Weigher solution for each application.**

**Active Weighing Solutions Belt Weighers are designed and manufactured in Australia. The weighers are easily installed onto the carry side of new and existing conveyors.**

## Continuous Weighing

Installed into an existing or new conveyor, Active Weighing Solutions Belt Weighers will accurately measure the rate and totalised value of material passing. Correctly sized, installed and maintained, the Belt Weighers will deliver long term accurate, reliable and repeatable product weighing for inventory management and process control.

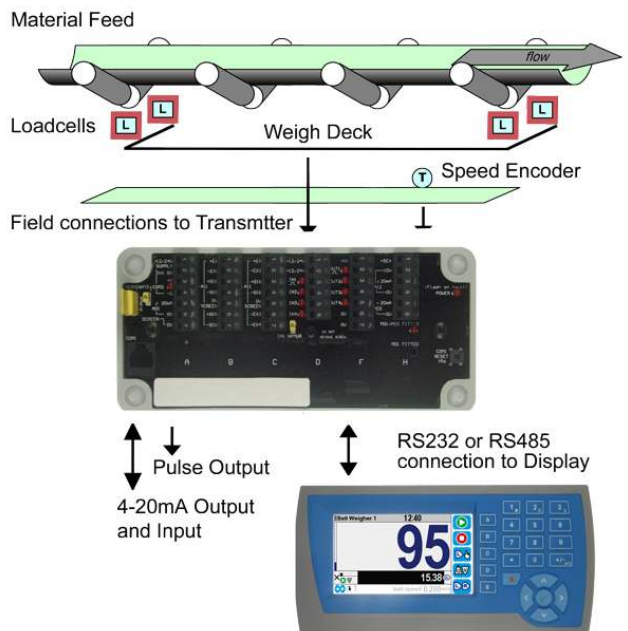
## Blending

Where minor ingredient addition accuracy is critical, a Belt Weigher output signal can be used as the remote set point for a gravimetric feeder.

The Belt Weigher flow rate output signal can also be used with a Volumetric Feeder where the accuracy of minor ingredient addition is less critical.

## Bulk Outloading

The Belt Weigher can be used to batch out a predetermined load with pre-act to accurate batching into rail, ship or truck, maximising loading and preventing over weight loads.



FOR SPECIFIC APPLICATIONS CONTACT ACTIVE WEIGHING SOLUTIONS OR OUR REPRESENTATIVE.  
Active Weighing Solutions is continually improving the design of its products and reserves the right to make alterations without prior notification.