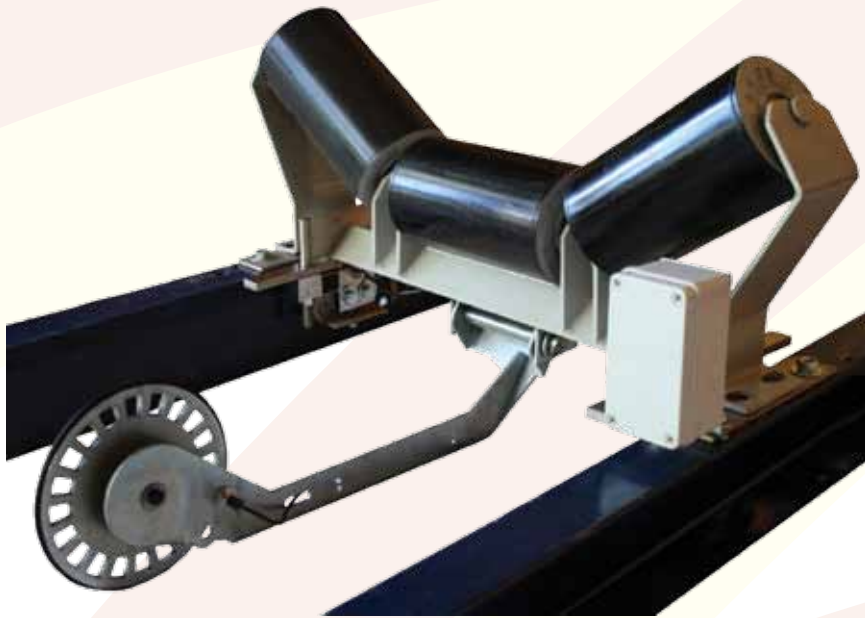


MBSX

SINGLE-IDLER BELT WEIGHER



FEATURES

- Simple Installation
- Accurate ($\pm 1\%$) and Reliable Design
- Stainless Steel Double Ended Shearbeam Loadcell
- Optional Jockey Wheel Speed Sensor Running on Return Belt
- Junction Box with Spring-Loaded Push-in Terminals
- Zinc-Plated Surface Finish with All Mounting Hardware

APPLICATION

Belt Weighers are used for the continuous acquisition of flow rates and totalised amounts. Fitted in either new or existing belt conveyors. They can be employed for a variety of tasks:

- Measurement of production rates in plants.
- Accountability of received and shipped amounts.
- Maximum or Minimum load limit alarms.
- Batching, in loading stations.
- Pre-feeder control.

The sturdy design ensures a high degree of reliability and availability.

CONSTRUCTION

The standard belt weigher comprises:

- Fully floating weighing platforms.
- Two double ended shear beam stainless Steel load cell(s) of IP-56 construction.
- IP-65 Cable junction box of ABS plastic.
- IP-65 Tail drum speed sensor.
- Mounting and adjusting bolts.

Options Include:

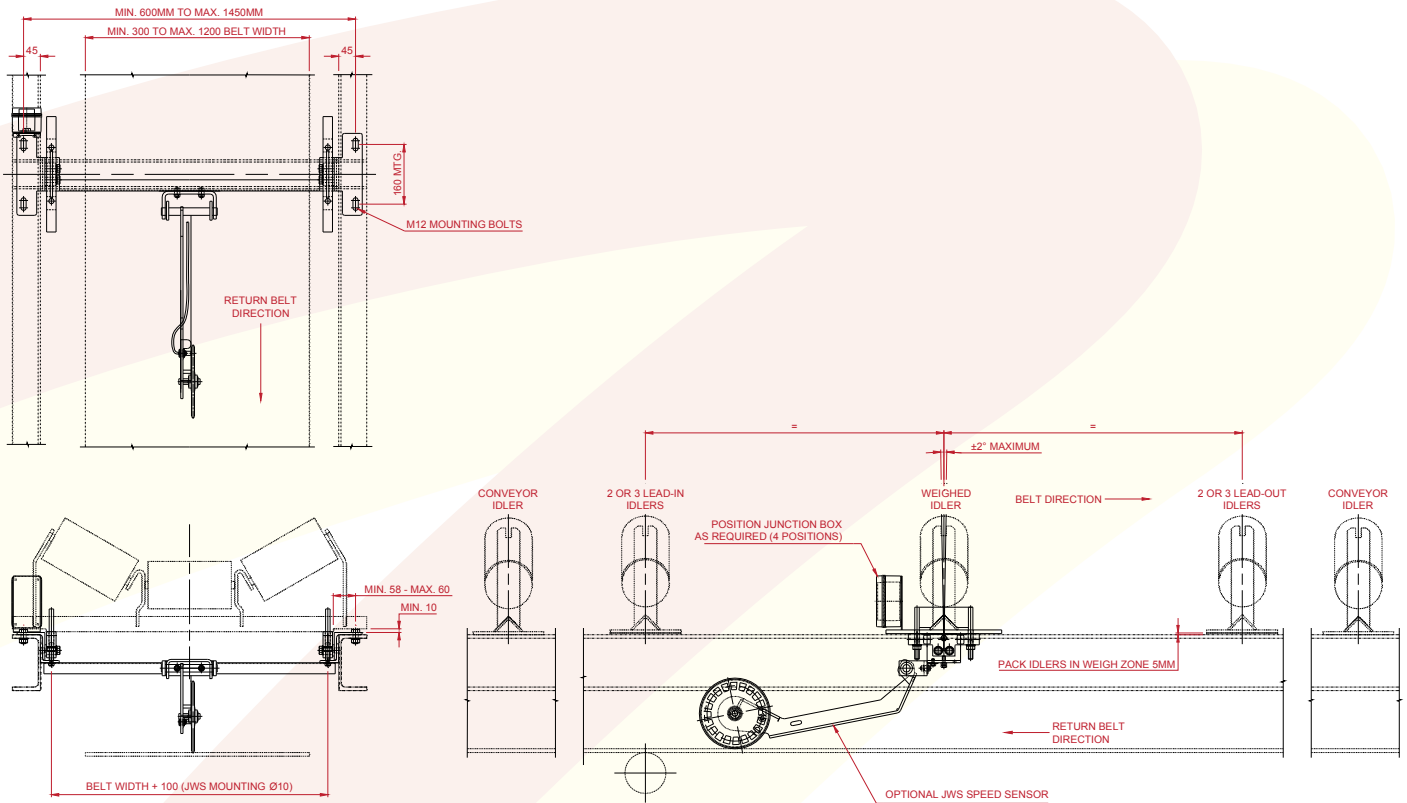
- Weigh quality idler sets with screw adjustment (for precise idler alignment, $\pm 0.2\text{mm}$).
- IP-65 Cable junction box in 316 stainless steel.
- Friction Jockey Wheel running on return belt.

OPERATION

The belt weigher comprises loadcells that measure the load on the weigh length while a speed transducer acquires the belt speed.

The controller calculates both the instantaneous load and the totalised amount. The MBSX features two stainless steel double ended shearbeams mounted on each conveyor stringer. The modular design also results in a lighter construction better suited to the working range of the loadcells.

DIMENSIONS



TECHNICAL DATA

Belt Widths	300 to 1200mm
Accuracy	±1% (Subject to Installation*)
Idler Troughing Angle	20 to 35°
Belt Speed	0.1 to 3 Meters per Second
Idler Base Angle Size	50x50 to 90x90mm Angle

* All belt weighers should be installed in accordance with the manufacturer's recommendations and installation and operating documentation.

COMPONENT	MODEL	DESCRIPTION
BELT WEIGHER	MBSX.100	100kg capacity with junction box
	MBSX.200	200kg capacity with junction box
	MBSX.400	400kg capacity with junction box
CONTROLLER AND DISPLAY	GWS	Controller in IP65 Mild Steel control box 24VDC
	GWS	Controller in IP65 Stainless Steel control box 24VDC
	GWS OPTION	4-20mA output for GWS controller
	GWS OPTION	110-240VAC to 24VDC cabinet power supply
SPEED SENSOR	TDS	Tail drum mounted speed sensor
	JWS	Jockey Wheel speed sensor

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