

Modular Multi-Idler Belt weigher model BSM 500

Features

- Simple installation
- Accurate (0.25%) and reliable design
- Stainless steel double ended shear beam load cell
- · Optional jockey wheel speed sensor running on returnbelt
- 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 flowrates 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 study design ensures a high degree of reliability and availability.

Construction

The standard belt weigher comprises:

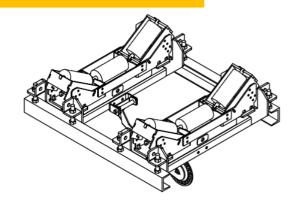
- Fully floating weighing platforms
- Two double ended shear beam stainless steel load cell(s)of IP67 construction
- IP65 cable junction box
- IP65 Tail drum speed sensor
- · Mounting and adjusting bolts

Options include:

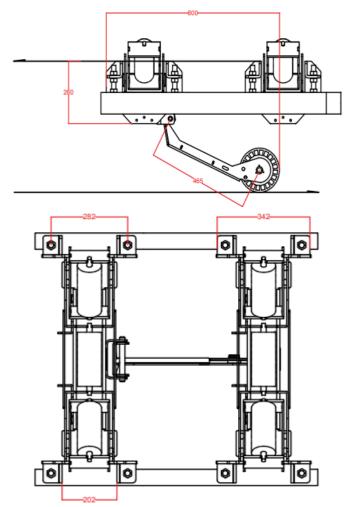
- Weigh quality idler sets with screw adjustment (for preciseidler alignment, ± 0.2mm)
- IP65 Cable junction box in 316 stainless steel
- · Friction jockey wheel running on return belt

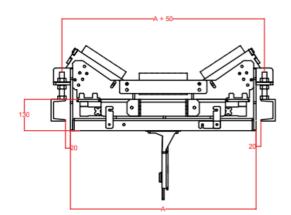
Operating Principle

The belt weigher comprises load cells that measure the loadon the weigh length while a speed transducer acquires the belt speed. The controller calculates both the instantaneousload and the totalised amount. The BSM 500 features two stainless steel double ended shear beams mounted on each conveyor stringer. The modular design also results in alighter construction better suited to the working range of theload cells.

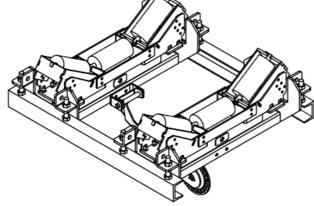


Specifications





A-internal distance of the conveyor frame 600....1500mm



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Applications

Belt widths	300 to 1200mm
Accuracy	±0/25% (subject to installation)
Idler troughing angle	20 to 35°
Belt Speed	0.1 to 3 metres per second
Idler Base Angle Size	50 x 50 to 90 x 90mm angle

Models & Configuration

	Model	Description	Part Number
Belt Scale	BSM.100	Belt Scale, 100kg capacity with junction box	NSM16008A
	BSM.200	Belt Scale, 200kg capacity with junction box	NSM16008B
	BSM.500	Belt Scale, 500kg capacity with junction box	NSM16008C
Controller	WB 400	WB 400 controller in IP65 Mild Steel control box 220VAC	PS7901
(see	WF 400	WF400 controller in IP65 stainless steel control box 220VAC	PS7902
separate	5AN	4-20mA output for WB/WF 400 controller	PS48A1
datasheet)	PS12	110-240VAC to 12VDC cabinet power supply	PS177A1
Speed Sensor	TDS	Tail drum mounted speed sensor	PS3802
	JWS	Jockey wheel speed sensor	PS1401

All belt scales should be installed in accordance with our recommendations for the planning in of belt scales (NIYANCELL MO002) and the installation and