

### FEATURES

- Highly Accurate, Proven and Rugged Design
- Fully Floating Weigh Carriage for Simple Calibration
- Cost-Effective, Modular Design
- Two and Four Idler Configurations
- Integrated Test Weight Receptors or Optional Lever Arm Operated Stored In-Place Test Weights

### APPLICATION

Multi-Idler Belt Weighers are used for continuous acquisition of flow rates and totalized amounts. They are especially designed for integration into belt conveyors and enable accuracies of up to  $\pm 0.25\%$ .

They can be employed for a whole variety of tasks:

- Throughput and consumption measurement in production plants.
- Accountability of stored and retrieved amounts.
- Maximum or Minimum load limit alarms.
- Batching, in loading stations.
- Pre-feeder control.

### CONSTRUCTION

The standard belt weigher comprises:

- Fully floating weighing platform.
- Overload-protected stainless steel loadcell of IP-65 construction.
- IP-65 cable junction box in painted mild steel.
- IP-65 tail drum speed sensor.
- Mounting and adjusting bolts.

Options include:

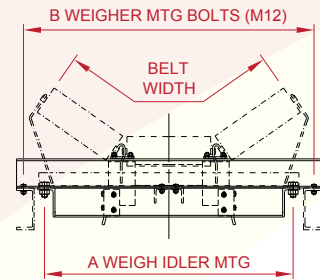
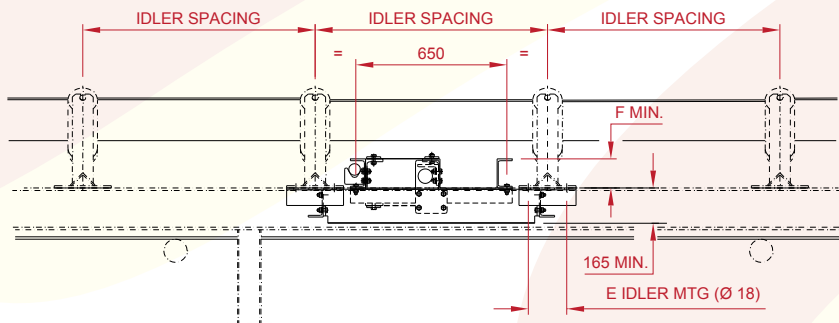
- Weigh quality idler sets with screw adjustment (for precise idler alignment,  $\pm 0.2\text{mm}$ ).
- IP-65 cable junction box in 316 stainless steel and optional speed sensor(s).
- Jockey Wheel running on return belt.

### OPERATION

The belt weigher comprises loadcells 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. Belt weighers designed with a longer weigh length are less prone to errors from the conveyor system.

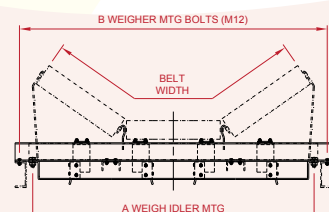
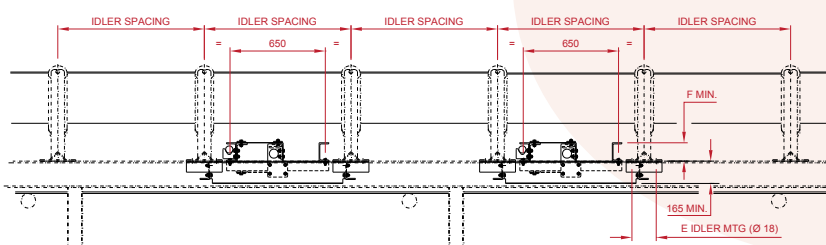
Similarly, wide belts introduce large side forces which cause errors. The MBD is a fully modular system which allows modules to be run in tandem or parallel thus giving a common belt weigher for a wide range of applications. This modular design also results in a lighter construction better suited to the load cells.

Single module (Dual Idler Configuration)



Multi module Configurations

2MBD (four idler) and MBD2 versions (for belt widths 1600 and above)



# TECHNICAL DATA - STANDARD MODELS

MODEL	ACCURACY*	No. of LOADCELLS	WEIGHT	BELT WIDTH	A	B	E	F
1.MBD.1.500	±0.5%	1	105kg	500mm	570mm	750mm	60mm	130mm
2.MBD.1.500	±0.25%	2	210kg					
1.MBD.1.600	±0.5%	1	111kg	600mm	670mm	850mm	60mm	130mm
2.MBD.1.600	±0.25%	2	222kg					
1.MBD.1.650	±0.5%	1	114kg	650mm	720mm	900mm	60mm	130mm
2.MBD.1.650	±0.25%	2	228kg					
1.MBD.1.750	±0.5%	1	122kg	750mm	820mm	1,000mm	60mm	130mm
2.MBD.1.750	±0.25%	2	244kg				140mm	
1.MBD.1.800	±0.5%	1	126kg	800mm	870mm	1,050mm	60mm	130mm
2.MBD.1.800	±0.25%	2	252kg				150mm	
1.MBD.1.900	±0.5%	1	132kg	900mm	970mm	1,150mm	60mm	130mm
2.MBD.1.900	±0.25%	2	264kg				150mm	
1.MBD.1.1000	±0.5%	1	138kg	1,000mm	1,070mm	1,250mm	60mm	165mm
2.MBD.1.1000	±0.25%	2	276kg				150mm	
1.MBD.1.1050	±0.5%	1	157kg	1,050mm	1,120mm	1,400mm	60mm	165mm
2.MBD.1.1050	±0.25%	2	314kg				150mm	
1.MBD.1.1200	±0.5%	1	169kg	1,200mm	1,270mm	1,450mm	60mm	165mm
2.MBD.1.1200	±0.25%	2	338kg				165mm	
1.MBD.1.1350	±0.5%	1	184kg	1,350mm	1,470mm	1,650mm	180mm	165mm
2.MBD.1.1350	±0.25%	2	368kg					
1.MBD.1.1400	±0.5%	1	200kg	1,400mm	1,520mm	1,700mm	200mm	165mm
2.MBD.1.1400	±0.25%	2	400kg					
1.MBD.1.1500	±0.5%	1	208kg	1,500mm	1,620mm	1,800mm	200mm	165mm
2.MBD.1.1500	±0.25%	2	416kg					
1.MBD.1.1600	±0.5%	1	282kg	1,600mm	1,820mm	2,000mm	240mm	165mm
2.MBD.1.1600	±0.25%	2	564kg					
1.MBD.1.1800	±0.5%	1	295kg	1,800mm	2,020mm	2,200mm	240mm	185mm
2.MBD.1.1800	±0.25%	2	590kg					
1.MBD.1.2000	±0.5%	1	315kg	2,000mm	2,220mm	2,400mm	280mm	205mm
2.MBD.1.2000	±0.25%	2	630kg					
1.MBD.1.2200	±0.5%	1	330kg	2,200mm	2,420mm	2,600mm	280mm	205mm
2.MBD.1.2200	±0.25%	2	660kg					
1.MBD.1.2400	±0.5%	1	350kg	2,400mm	2,620mm	2,800mm	350mm	205mm
2.MBD.1.2400	±0.25%	2	700kg					
1.MBD.1.2500	±0.5%	1	360kg	2,500mm	2,720mm	2,900mm	350mm	205mm
2.MBD.1.2500	±0.25%	2	720kg					

\* Standard Idler spacings 1000, 1250 & 1500mm. Custom designs to suit non standard conveyor stringers, idler spacing and idler dimensions are also available on request. Accuracy quoted is based on maximum belt speed of 5m/s and is subject to confirmation by formal quotation. Belt weighers should be installed in accordance with the operating and installation manuals.

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