

MODULAR MULTI-IDLER BELT WEIGHER MODEL WBD

- Highly Accurate, Provenand Rugged Design
- Fully Floating weigh carriage for simple calibration
- Cost effective modulardesign
- Two and four idler configurations
- Integrated test weight receptors or optional leverarm operated stored in place test weights



Application

Multi-Idler Belt Weighers are usedfor continuous acquisition of flow rates and totalized amounts. Theyare especially designed forintegration 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.

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

Construction

- The standard belt weigher comprises:
- Fully floating weighing platform.
- Overload-protected stainless Steelload cell(s) of IP67 construction.
- IP65 Cable junction box in paintedmild steel.
- IP65 Tail drum speed sensor.
- Mounting and adjusting bolts.

Options include:

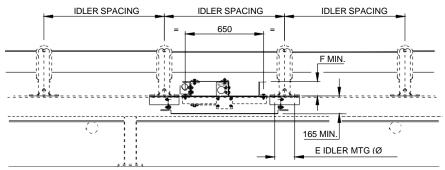
- Weigh quality idler sets with screw adjustment (for precise idler alignment, ± 0.2mm).
- IP65 Cable junction box in 316 stainless steel and optional speedsensor(s).
- Friction Jockey Wheel running on return belt.

Operating Principle

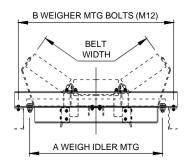
The belt weigher comprises load cells measure the load on the weigh length while a speed transducer acquires the belt speed. The controller calculates both the instantaneous load and the totalized amount. Belt weighers designed with a longer weigh length are less prone to errors from the conveyor system. Similarly, wide belts introduce large side forces which cause errors. The WBD 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.



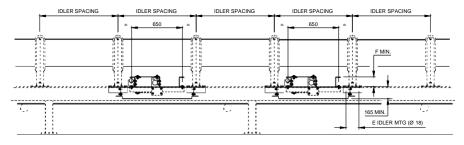
Configurations and Dimensions

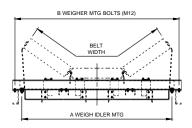






Multi module Configurations 2WBD (four idler) and WBD2 versions (for belt widths 1600 and above)





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. Dimensions and specifications are subject to change without notic

Standard Models

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Model	Accurac y	No. L/C & Module s	Weig ht (kg)	Belt Width	А	В	E	F
1WBD1.500	± 0.5%	S	10 5	50	57	75	60	13
2 WBD 1.500	± 0.25%	2	21 0	0	0	0		0
1 WBD 1.600	± 0.5%	1	11 1	60 0	67 0	85 0	60	13 0
2 WBD 1.600	± 0.25%	2	22 2					
1 WBD 1.650	± 0.5%	1	11 4	65 0	72 0	90 0	60	13 0
2 WBD 1.650	± 0.25%	2	22 8					
1 WBD 1.750	± 0.5%	1	12 2	75 0	82 0	1000	60	13 0
2 WBD 1.750	± 0.25%	2	24 4				 14 0	
1 WBD 1.800	± 0.5%	1	12 6	80 0	87 0	1050	60	13 0
2 WBD 1.800	± 0.25%	2	25 2				 15 0	
1 WBD 1.900	± 0.5%	1	13 2	90 0	97 0	1150	60	13 0
2 WBD 1.900	± 0.25%	2	26 4				15 0	
1 WBD 1.1000	± 0.5%	1	13 8	1000	1070	1250	60	16 5
2 WBD 1.1000	± 0.25%	2	27 6				15 0	
1 WBD 1.1050	± 0.5%	1	15 7	1050	1120	1300	60	16 5
2 WBD.1050	± 0.25%	2	31 4				15 0	
1 WBD 1.1200	± 0.5%	1	16 9	1200	1270	1450	60	16 5
2 WBD 1.1200	± 0.25%	2	33 8				16 5	
1 WBD 1.1350	± 0.5%	1	18 4	1350	1470	1650	18	16 5
2 WBD 1.1350	± 0.25%	2	36 8				0	
1 WBD 1.1400	± 0.5%	1	20 0	1400	1520	1700	20 0	16 5
2 WBD 1.1400	± 0.25%	2	40 0					
1 WBD 1.1500	± 0.5%	1	20 8	1500	1620	1800	20 0	16 5
2 WBD 1.1500	± 0.25%	2	41 2					
1 WBD 2.1600	± 0.5%	2	28 2	1600	1820	2000	24 0	16 5
2 WBD 2.1600	± 0.25%	4	56 4					
1 WBD 2.1800	± 0.5%	2	29 5	1800	2020	2200	24 0	19 5
2 WBD 2.1800	± 0.25%	4	59 0					
1 WBD 2.2000	± 0.5%	2	31 5	2000	2220	2400	28 0	19 5
2 WBD 2.200	± 0.25%	4	63 0					
1 WBD 2.2200	± 0.5%	2	33 0	2200	2320	2600	28	19
2 WBD 2.2200	± 0.25%	4	66 0				0	5
1 WBD 2.2500 2 WBD.2500	± 0.5% ± 0.25%	2 4	35 0 70 0	2400	2520	2800	35	19
1 WBD 2.2500	± 0.5%	2	0 36 0	0500	0700	2000	0	5 19
	± 0.25%	4	0 72 0	2500	2720	2900	35 0	5
2 WBD 2.2500			0					

COMPANY

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