Data Sheet 47

Cimbria Belt Weigher Type CBW

Integration:
The Cimbria Belt Weigher Unit is used for mounting in Cimbria Belt Conveyors for continuous weighing in processing plants. The unit consists of a structure with load cells securing optimum stability and accuracy.

Option:
Up to 4 Weighers can be connected to one Weigher Control. Data can be monitored in other systems via OPC server.

Specification:
1. Weighing range according to specifications of GT-400 / GT-500 and GT-650.
2. Length of section: 500 mm.
3. The weigh bridge is manufactured in steel.
4. The Cimbria Belt Weigher can easily be built into a new or existing belt conveyor type GT 400/500 and 650.

From the load cell the signal is transferred to the load cell amplifier. The signal is used to calculate the amount of material which passes over the weight in kg. – ton/h – accumulated tons.
The weight calculates 20 times per second in order to record all variations. At the same time the belt speed is calculated continuously for the best possible result.

Conditions:
The following conditions must be met in order to weigh with accuracy better than +/- 1 %*. Recommended belt speed < 2,0 m/s
1. The belt conveyor must be without discharge car.
2. Belt section 1 meter before and 1 meter after Weigher must not change the belt’s form, function or tightening.
3. The belt must be even and without lumps/sticky materials and mechanical assemblies.
4. The joints of the belt must be smooth and cannot “weigh” more / less than the rest of the belt.
5. Sensor for measuring the speed is placed on the tension section in order to measure the correct belt speed.
6. The capacity of the conveyed amount should be > 25 % of the belt’s capacity in order to keep a high accuracy (if necessary use frequency converter).

* Net load capacity (material weight) on scale must be >= 5 kg

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