

## BELT WEIGHERS UNIT

Belt Weighing unit are used to measure continuous material flows of varying amounts. When weighing material carried by a conveyor, one or more of the conveyor idlers is replaced by a weighing unit with idlers having the same geometry as the adjacent idlers. Weighing units, available in various versions, comprise the weighing module for accommodating user's idler set, load cell is equipped with mechanical and shock overload protection devices to prevent damage to the load cell.

### APPLICATION

- Continuous bulk solids measurement in belt conveyor system.
- Bulk inventory control and management.
- Continuous blending system.
- Plant production measurement.
- Flowrate control with weighfeeder controller.

**HB-777 Weighing unit, featuring a modular design,  
is a complete unit, adaptable to all standard conveyor designs.**

- Belt widths from 18 to 72 inches (450 to 1800 millimeters) are accommodated.
- Conveyor capacities from a few tons per hour to 5000 metric tons per hour are accommodated by different load cell sizes with different ranges.
- Certifiable heavy-duty design that utilizes single idler weighing units to make one-to-four weighing unit scales.
- Trimming screws and bushings permit easy and accurate adjustment of the rollers to match the adjacent idlers on the conveyor. Shims, cutting and welding are not required for installation and alignment.
- Special force hinge design is utilized to eliminate levers, pivots and bearings.  
This design eliminates weighing errors due to off-center belt loading.
- Digital, photo-electric pulse generator for direct coupling to tail pulley or optional wheel assembly mounted between belt strands, 304 stainless steel enclosure.
- The scale frame in which the weigh idler is mounted and which transmits the belt load to the load cell is equipped with mechanical and shock overload protection devices to prevent damage to the load cell.
- Accuracy better than 0.25%-0.5% in two weigh modules with precision adjustable idler set.  
※ Better than 0.125% can be reached in three weigh modules with precision adjustable idler set.
- Calibration by electronic, material test, test chain (optional), or test weight (optional).
- Heavy-duty construction, carbon steel with rust resistant primer, painted orange enamel all adjustment screws and bushings anodized for corrosion resistance.

### OPTIONAL

- 304 stainless steel construction is available by optional
- Printers and recorders are available
- Remote rate and totalizer meters.