



schenckprocess



**BEMP™ Belt
Scale / Integrator**

BEMP™ Modular Single-Idler Belt Scale / Integrator

For continuous flow rates up to 15,000 tons / hour, Schenck's BEMP™ Single-Idler Belt Scale combines quality, performance, and affordability in a modular package that can be shipped from stock. Whether your conveyor uses 18" or 60" - wide CEMA idlers, the BEMP™ mounts easily to your conveyor frame using only (4) bolts. Using (2) NTEP-approved single point load cells and the Schenck INTECONT MS Integrator, accuracies of +/- 1% of totalized weight are possible when used on a Schenck-approved conveyor. Fieldbus communications such as Ethernet are also available for use with the INTECONT MS Integrator to provide visual graphics of production levels within the plant. Schenck engineers custom program each Ethernet card to store web pages, which enable operators to determine feed rates and totalized amounts from any location that has Internet access.

Whether you are conveying sand, gravel, crushed rock, synthetic gypsum, or some other bulk material, there's a BEMP™ Single-Idler Belt Scale and INTECONT MS Integrator that's in stock and right for the job.

APPLICATION:

Single-idler belt scales are commonly used in belt conveying applications to continuously measure and report flow rates and totalized material amounts. Applications include:

- Measurement of throughput and/or material consumption
- Reporting of alarm conditions
- Totalizing batch weights for load-out stations

OPERATION:

"Material weight," measured by the BEMP™ Belt Scale and "belt speed" are multiplied by the INTECONT MS Integrator to produce a "flow rate" value. Flow rate is then integrated by the INTECONT MS to produce a "totalized weight" value. (NOTE: For variable speed conveyor belts, an optional speed sensor can be used in place of a belt speed parameter.)

CONSTRUCTION:

The modular BEMP™ Belt Scale features epoxy painted, mild steel construction and is suitable for use with trough or flat idlers 18" to 60" (450 mm to 1500 mm) CEMA. Stainless steel construction is available as an option.

LOAD CELLS:

(2) NTEP-approved, single-point, stainless steel, strain gage load cells with rated capacities of 66#, 132#, 220#, 330#, or 660# (30, 60, 100, 150, or 300 kg). The load cells are mounted in compression for optimum accuracy.

ACCURACY:

+/- 1% totalized weight over a 3:1 design capacity range when installed on a Schenck-approved conveyor. Dual-idler belt scales with $\pm 0.5\%$ accuracy are also available.

OVERLOAD PROTECTION:

Positive mechanical stops are provided for optimum protection.

OPERATING TEMPERATURE RANGE:

+0° F to +110° F

CALIBRATION:

Via static test weights (supplied).

Specifications

**For more information,
please call the
Schenck Process Sales Department at
1-800-401-9702 or Fax: 973-882-3796
E-mail: mktg@schcnkamericas.com
Web site: www.schcnkamericas.com**

BEMP™ BELT SCALE / INTEGRATOR SPECIFICATIONS (continued)...

INSTALLATION:

The BEMP™ Belt Scale can be easily added to a new or existing belt conveyor frame as follows:

Step 1

Using the supplied drawing, drill (2) holes on each side of the conveyor frame.

Step 2

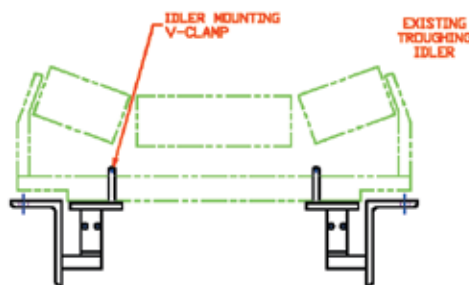
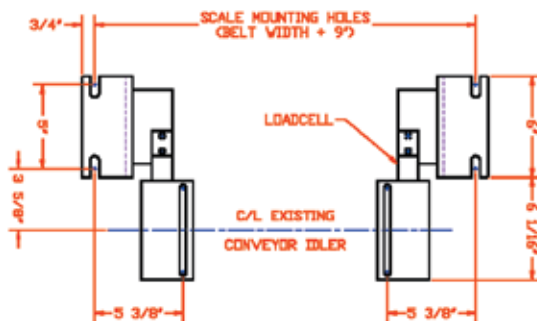
Clamp an existing conveyor idler to the BEMP™ weigh modules using the supplied "V" clamps.

Step 3

Connect the load cells to the INTECONT MS electronics.

Step 4

Calibrate using the supplied test weights.



INTECONT MS (MEASURING SYSTEM):

"Simple" is the key word when describing the INTECONT MS Integrator. Industrially packaged in a NEMA 4 enclosure, the unit features:

- 2 line alpha numeric display
- Three (3) internal totalizers; two (2) are resettable
- 24 VDC, 110 VAC, or 220 VAC power source compatibility
- Totalizing counter output
- 4-20mA feed rate, load, or speed output
- Menu driven interface for programming, calibration and operation
- +32° F to +122° F (+0° C to +50° C) operating temperature
- User friendly, menu driven
- Batch control feature available
- Programmable alarm outputs

Schenck DISOCONT® Controllers can also be used with BEMP™ Belt Scales. For additional information on controls, weighfeeders, solids flow meters, vibratory screens, static bin weighing systems, or in-motion truck / train weighing systems, contact Schenck Process.



BEMP™ Belt Scale in an aggregate industry installation.