

Who is Arch Environmental?

*manufacturer and worldwide distributor of preferred bulk conveyor components since 1975

Mechanical Division

Belt Cleaners • Belt Alignment • Sealing Systems • Dust Control Systems • Impact/Slider Systems

Electrical Division

Belt Scales • Metal Detectors • Pull Cord Switches • Belt Protection Devices • Conveyor Control Systems

*facilities include a fabrication shop, a CNC machine shop, and state-of-the-art urethane production



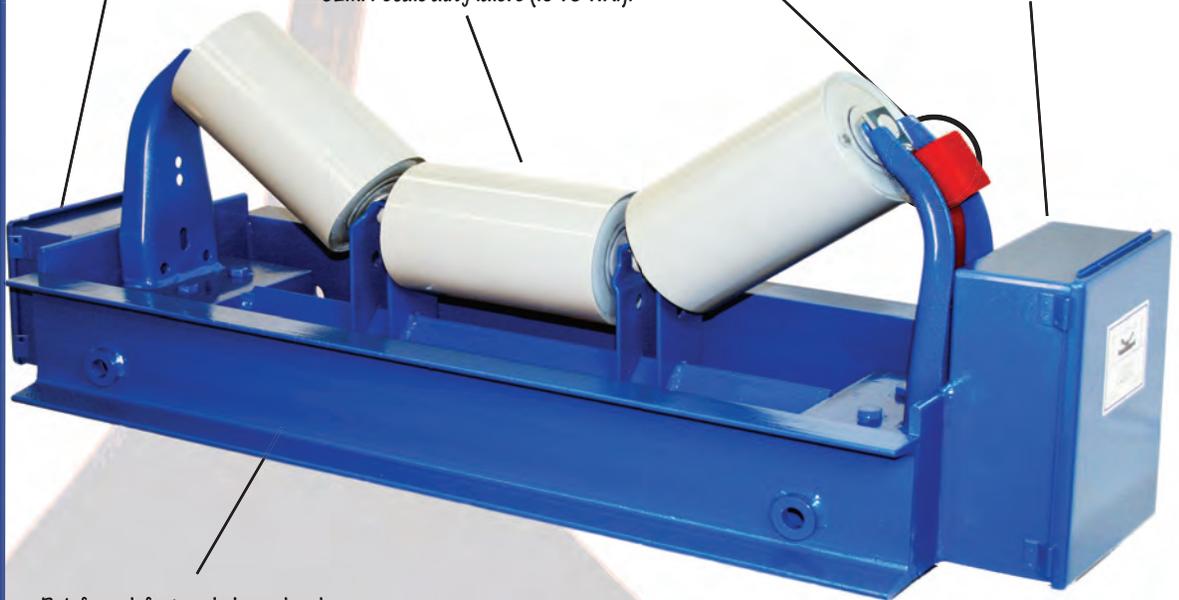
ARCHWEIGH HP[®] BELT SCALE

Patented ArchWeigh[®] dual load cells assure accuracies of +/- .5% by automatically zeroing out the effects of the idlers movement.

Speed unit precisely measures belt speed. Internal housing means once the scale is installed, so is the speed unit.

CEMA scale duty idlers (.015 TIR).

Oversized junction box for field connections.



Reinforced, factory balanced and leveled frame eliminates common problems associated with insufficient structure.

- | | |
|-------------------------|---|
| EZ Installation | ✓ |
| Low Maintenance | ✓ |
| Super Heavy-Duty | ✓ |
| Fast Delivery | ✓ |
| Worksheet Req'd | ✓ |

ArchWeigh HP[®] Belt Scales provide long-term repeatability without recalibration.

Accurately measures *only* material on the belt and eliminates the force of the moving belt.

A complete scale carriage, not a 'do-it-yourself' kit.

Unique dual load cell design allows for a positive/negative response to account for normal conveyor variance.

Unitized bridge construction and internal speed sensor allow for one time 'Bolt-in-Place' installation.



ARCH
ENVIRONMENTAL
EQUIPMENT, INC.

CONVEYOR EFFICIENCY SPECIALISTS

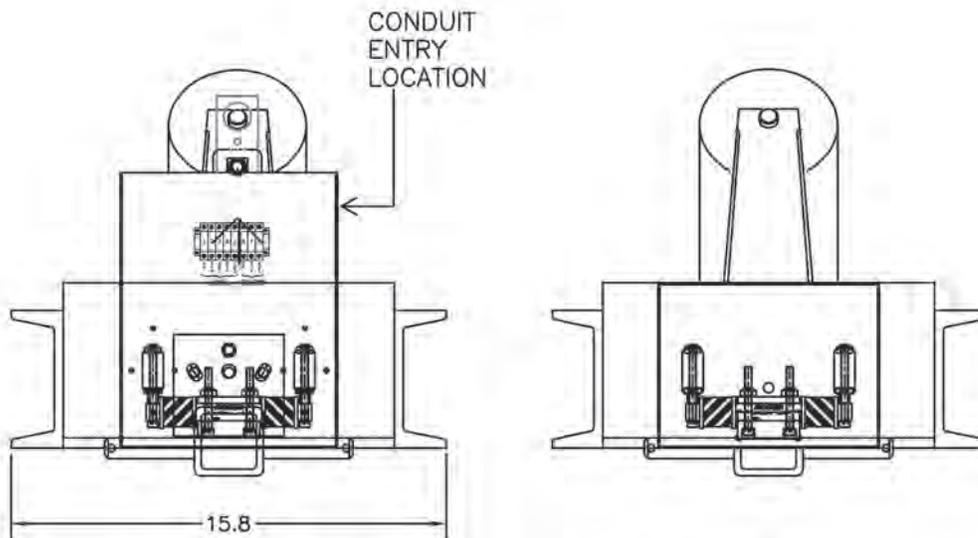
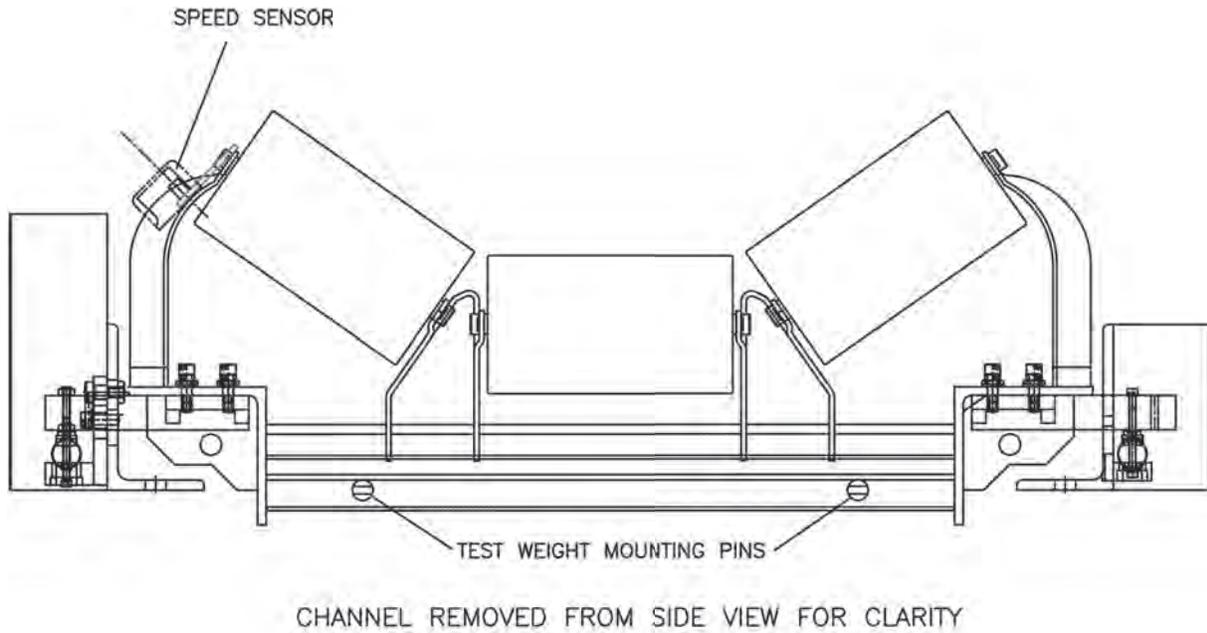
800-553-4567

www.archenv.com

(Conveying Confidence)



ARCHWEIGH HP[®] BELT SCALE



Scale Idler

Roll Tolerance: 0.015 in. TIR
 Bearings: Sealed Ball
 Specifications: CEMA

Load Cells

Quantity: 2 double-ended shear beams
 (4 total load cells)
 Excitation: 10DVC
 Output: 3 mV/V (+/- .25%)
 Non-linearity (FSO): <0.03%
 Non-repeatability (FSO): <0.03%
 Hysteresis (FSO): <0.05%

Speed Sensor

Type: Hall Effect
 Mounting: Outboard Wing Roll
 Voltage: 24 VDC
 Output: 20 mA



Covered under one or more of the following patents:
 4,202,437;4,231,471;4,436,446;4,489,823;4,533,036;4,779,716;4,877,125;
 4,989,727;5,149,305;5,222,588;5,222,589;5,219,063;5,350,053;5,725,083;
 other patents pending

Note: If available, prices vary with options.