

800-536-4880



TECWEIGH.COM

Product Line

Tecweigh's reputation is built on providing the right solutions to the unique process application requirements of our customers.

Easy to use, dependable and accurate scales in single to four idler configurations

CONVEYOR BELT SCALES



Accurate weighing systems for applications from rocks to food to minerals

WEIGH BELT FEEDERS



Expert Management of aggregate flow from sand to 6" materials

CONTROL GATES



Engineered to handle even the most difficult to feed dry materials

VOLUMETRIC FEEDERS



Utilizing the powerful GRC32 control, these feeders provide high accuracy with proven dependability

GRAVIMETRIC FEEDERS



Customizable, adjustable, and modular units to fit your process

BULK BAG UNLOADERS



User friendly, easy to read and designed to work in all environmental conditions

PROCESSORS



Tecweigh is proud to be part of the weighing and material handling business for more than 50 years. Built from an entrepreneur's commitment to provide the highest quality equipment, Tecweigh systems are designed to outperform, outlast, and outweigh. We are Superior by all Measure!

- Sales Representatives Available
- 5 Year Warranty



HDS Belt Scale System

Designed for applications requiring high accuracy and long service in the most demanding mining operations and makes the perfect legacy belt scale replacement.

Tecweigh's HDS (Heavy Duty S-Type Load Cell) is a high-precision belt scale system designed for applications that require superior accuracy and long-lasting reliability, even in the most challenging mining conditions. It is the perfect solution for replacing outdated equipment and seamlessly complements Tecweigh's reliable line of belt scales.

The HDS scale system features a fully-floating, unitized weighbridge paired with the WP50 integrator, which boasts a high-visibility LED display and an intuitive operator interface.

HDS Advantages

- Heavy Duty structural steel with check rods to maintain proper alignment.
- Full floating, pivotless design preventing wear parts to replace.
- No adjustment needed.
- Factory pre-assembled for faster, easier installation.
- Four precision strain gauge loadcells in tension.



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Since 1973



HDS Belt Scale System

System Components:

The Weighbridge: 2 or 4 idler weighbridges incorporate precision S-type loadcells in tension supporting a full floating weighbridge. All weighbridges are constructed of structural steel tubing, powder coated, and are factory pre-assembled with check rods to facilitate fast and easy field installation. Only eight bolts are required to mount the unit to conveyor stringers. The static weights will not sag over time or swing during calibration and can be safely raised or lowered outside the safety pull cord while the conveyor is running.

Static Calibration Weights: Our Static Calibration Weights come standard on all Tecweigh scales and feature several advantages:

- Weights can be raised or lowered safely from outside the safety pull cord while the conveyor is running.
- Solid weights span the entire width of the conveyor.
- Weights can be raised or lowered from either side of the conveyor.
- Calibration weights are held securely in place and will not bend or sway during calibration.



WP50 Scale Processor: the WP50 is Tecweighs latest addition to a long line of successful processors. The WP50 is available in NEMA-12, NEMA-4X Field Mount with Poly enclosure, or NEMA-4X Stainless Steel enclosure. It functions as a belt scale processor and as a weigh belt feeder controller with PID and batching functions. It can also be easily retrofitted to most brands of belt scale carriages and is the perfect replacement for legacy integrators. The calibration can be static weight, chain, electronic, or material test. Please see our WP50 Technical Data Sheet for more information.



NEMA-12 Metal
NEMA 4X Stainless



NEMA-4X Poly



Specifications

HDS Weighbridge	
Belt Widths:	36" to 96"
Loadcells:	(4) Precision S-Type up to 10K lbs each 3 mv/v Output, 5-10 C VDC Excitation Stainless Steel, 150% full scale overload protection
WP50 Specifications	
Enclosures	NEMA-12, 12" x 9" x 5" NEMA-4X 304 Stainless Steels, 12" X 9" x 5" NEMA-4X Poly Field Mount with Clear Door, 14" X 12" X 6" Field Mount with HMI, Panel Mount, Remote Display
Temperature	Operating Temperature: -30C to 55C (-22F to 131F) Storage Temperature: -30C to 80C (-22F to 176F)
Electronic Controller	Can be configured as Basic Scale, Feeder Controller with PID, or Batch
Power Supply	100-240 VAC, 9-36 VDC (optional) Isolation/Circuit Breaker to be Customer Supplied
Inputs	Analog: (1) 4-20 mA Isolated Digital: (4) Programmable, Dry Contact
Outputs	Analog: (3) 4-10 mA Isolated, programmable for Rate, Load, & Speed Digital: (3) Form-C Dry Contact rated at 600 mA 120VAC Serial Ports: RS-485, RS-232 TTL Printer Port
Fieldbus Regulatory	Optional Ethernet/IP or Modbus/TCP UL, CUL (poly enclosure only)
SC500 Digitizer Specifications	
Enclosure	NEMA-12 Metal, Optional NEMA-4X 304 SS, NEMA-9
Temperature	Operating Temperature: -40C to 80C (-40F to 158F) Storage temperature: -40C to 80C (-40F to 176F)
Power Supply	8-24 VDC, 24VDC when powered by the WP50
Inputs	Up to (8) Loadcell, 2-3 Wire Speed Sensors
Interface	RS-485, 4-Wire to WP50 or can be installed inside WP50 Enclosure for legacy belt scale retrofits. Allows for use of existing wiring and j-box.
Regulatory	UL, CUL