WEIGHT MEASUREMENT

Reliable Weight Measurement. Even in the Toughest Process Conditions.

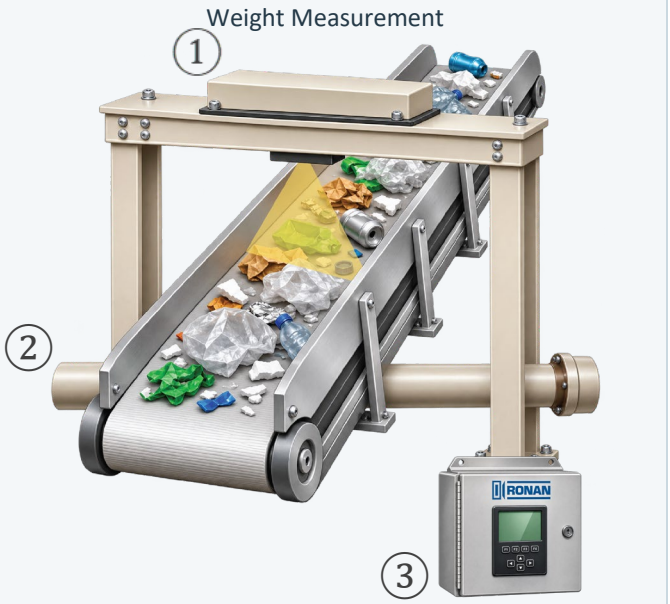
THE MEASUREMENT SOLUTION

Ronan's non-contact radiometric weighing systems continuously measure material on belt, screw and other conveyors—without load cells or intrusive components that can be affected by vibration, impact, abrasion or material buildup.

HOW IT WORKS

Ronan's weight measurement system uses three coordinated components to measure moving material without contacting the conveyor or product.

1. **Source Holder**
   Directs a controlled beam of gamma energy through material on the conveyor.
2. **Detector**
   Measures changes in radiation intensity as the quantity of material passing through the beam changes.
3. **Microprocessor / Transmitter**
   Converts the detector signal into weight, rate, totalized material and selected process-control outputs.



KEY BENEFITS

No Contact, No Wear
No load cells or weighing components exposed to material impact, abrasion or conveyor vibration.

Minimal Installation Disruption
Compact measurement frame installs around existing conveyors without major modifications.

Reduced Maintenance
Non-contact technology eliminates wear associated with conventional mechanical weighing components.

Reliable Process Monitoring
Continuous weight and throughput data supports material control, batching and inventory tracking.

WEIGHT MEASUREMENT

BUILT AROUND YOUR PROCESS

Configured around conveyor type, geometry, material characteristics, throughput range and required measurement outputs.

ELECTRONICS FEATURES & CAPABILITIES

- Continuous process visibility through electronic weight and rate measurement
- Better material tracking with totalization and batching capabilities
- Flexible reporting with selectable speed, weight, rate and totalizer outputs
- Simplified operation with automatic zero on an empty conveyor

INDUSTRIES & APPLICATIONS

INDUSTRIES

- Mining and Aggregates
- Cement
- Food and Beverage Processing
- Ethanol and Renewables
- Recycling

APPLICATIONS

- Belt and screw conveyors
- Bulk material transfer and loading
- Batching and blending operations
- Continuous material throughput monitoring
- Drag chain and other conveyor systems
- Space-constrained weighing applications

ENGINEERED FOR YOUR PROCESS

Conveyor conditions vary widely. Ronan engineers evaluate conveyor geometry, material density, expected loading, speed information and operating conditions to configure a system for your specific requirements.

From initial application review through commissioning, startup and ongoing support, Ronan works with your team to deliver dependable conveyor weight measurement.

EXPLORE THE COMPLETE SOLUTION

◄ Scan for applications, technical resources and to contact a Ronan engineer.

ronan.com/measurement-systems/weight-measurement/