

BCi

IN-MOTION
BELT SCALE SYSTEM





Idlers not included.

Dependable. Accurate. Tough.

Durability or accuracy? With most belt scales, you get one or the other. With the patented design of Rice Lake's rugged BCi belt scale, now you can get both. This belt scale is not only one of the most accurate in its class, it's built to last. Ideal for mining, quarries, bulk material blending, process control operations, and truck/barge/rail load-out applications, the BCi easily handles capacities up to 10,000 tons per hour with unsurpassed accuracy.

The BCi's innovative integrator fits a wide variety of applications—from simple inventory reporting to automated load-out. This durable belt scale is capable of delivering real-time statistical data through a variety of wired, fiber optic and wireless network options. The robust processing power and expanded networking capabilities enable the integrator to easily communicate with printers, PCs, remote displays, ERP systems, PLCs, and other peripheral equipment.









Easy-to-read display shows rate, speed, real-time load, and total material weighed across the belt since last reset. Configuration is intuitive and fast.

Standard Features

- Large 4.6"W x 3.4"H 320 x 240 pixel back-lit LCD graphical display
- NEMA 4X/IP66 stainless steel display enclosure
- Four bidirectional communication ports
- Rate and speed time displayed by the hour, minute or second
- Measurement displayed in feet or meters
- Unit of rate displayed in tons, pounds, kilograms, metric tons, or long tons
- Digital I/O for totalizer
- Analog outputs optional
- Alarm outputs optional
- For added security, integrator has the ability to be password protected
- Communication protocol cards include Rockwell Automation's DeviceNet™, Rockwell Automation's Remote I/O, Rockwell Automation's EtherNet IP™, Profibus® DP, 4-20mA analog output, Ethernet TCP/IP, RS-232, RS-485, 20mA current loop serial
- Configurable ticket printing
- Built in support for ticket printing

Components

-  Four laterally opposed shear beam load cells mounted in a unitized single idler scale frame
-  Signal trim TuffSeal™ environmentally sealed junction box, expandable for multi-idler applications
-  Non-contact proximity sensor encoder on an 8" speed wheel
-  920i®-based belt scale integrator supports up to four weigh idlers (16 load cells per A/D card)
-  Magnetic shaft encoder
-  Test weight hangers and weights

Specifications

- Conveyor Widths:** 18" to 72"
- Capacity:** Up to 10,000 tph
- Belt Speed:** Up to 1,200 fpm
- Accuracy:** From $\pm 0.25\%$
- Applications:** Mining, quarries, bulk material blending, process control applications, utilities, truck/barge/rail loading, retrofit applications

Approvals



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