

RailBoss™

RAIL SCALE



**TOUGHEST
SCALES
ON EARTH.™**

RICE LAKE®
WEIGHING SYSTEMS

To be the best by every measure®

Wish you could weigh rail cars before they left your yard?

RailBoss™ Rail Scale fits in your yard and your budget

Many scrap yards, agricultural operations and plants that could never afford the space, time and cost of a conventional rail scale—can afford to install our RailBoss Rail Scale. It usually takes less than eight hours to install and is less than one-third the cost of other rail scales.

What is RailBoss?

The RailBoss system is a series of 5'10" rail sections specially fitted with strain gauges to accurately measure the total gross weight of your rail cars. Each section of rail is an individual weighbridge for a single wheel. The system provides total car weight plus weight readings for individual rail trucks.

RailBoss is designed for rail cars with 5'9" to 5'11" truck centers and can be installed in any location that has straight and level track for one car length. The RailBoss sections are bolted onto existing track and ties, minimizing installation time and disruption of rail traffic. The standard RailBoss utilizes 90RE, 115RE or 132RE rail, however custom rail sizes are also available. Trains not being weighed can move across the scale at normal line speed without affecting the scale.

How you save

Running balanced rail cars at or near capacity is the smart way to go for greatest efficiency and profit. RailBoss eliminates the guesswork of volumetric measuring and variable tare weights. Under loading, incorrect billing, overloading, rejection and fines will all be avoided with the RailBoss rail scale. RailBoss will provide the accuracy you need for check weighing, process monitoring, filling, record keeping and safety issues.



How it works

RailBoss utilizes proven strain gauge technology to accurately determine individual weights for each wheel of the rail car, and an accurate total weight for the rail car. Rail cars can be positioned on the scale in a number of ways: track mobile, tug motors, locomotives, or other convenient means. Rail cars can be positioned and weighed in as little as a couple of minutes. Once the rail car is in position, the Rice Lake 920i® indicator displays the weight of the rail car—it is as simple as that!

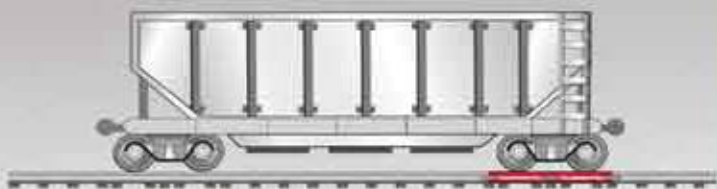
Full draft RailBoss

The full draft system, consisting of eight RailBoss sections can weigh an entire rail car in a single draft. Each of the RailBoss sections supports a single wheel of the rail car. The full draft system also permits double-draft weighing of rail cars when required.



Double draft RailBoss

The double-draft system uses only four RailBoss sections and weighs one end of the car, then the other. This system is the ideal choice when it is necessary to weigh a wide range of rail car sizes. The Rice Lake 920i indicator instantly displays the individual rail truck weights and totals for each rail car.



Rice Lake 920i® indicator

The RailBoss software program prompts the operator through each step of the weighing operation. The 920i indicator uses RailBoss software to display individual rail truck weights, total car weights, gross, tare and net weights. Rail car ID numbers can be input through the front panel of the 920i. An optional printer is available to provide a printed record of all transactions.



How to install

Installation of RailBoss rail sections can be completed in a matter of hours by a qualified rail maintenance contractor. There is no concrete to pour or foundation to prepare. RailBoss installs on existing ties and ballast. Rail joint bars connect RailBoss sections to existing rail. Drawings indicating rail tie placement are provided by Rice Lake Weighing Systems. Final testing and calibration is performed by your local Rice Lake representative.

01/23/2011	10:32AM	SCALE #11
Rail Car ID: 12345		
Rail Truck #1:	133000	lb Gross
Rail Truck #2:	129000	lb Gross
Totals	Gross: 262000	lb
	Tare: 62300	lb (Keyed)
	Net: 199700	lb

01/23/2011	Using Full Draft	Enter ID	Enter Tare	Abort Ticket
Rail Car ID:				
Rail Truck #1:	136400	lb	Gross	
Rail Truck #2:	141200	lb	Gross	
Totals	Gross: 277600	lb		
	Tare: 64000	lb	(Keyed)	
	Net: 213600	lb		
Using Mobile Draft	Enter ID	Enter Tare	Capture Rail Truck #	Abort Ticket

RailBoss™ RAIL SCALE

Complete your scale with the highest quality accessories.

The toughest scales on Earth deserve the best.

1. Ticket and Continuous Fanfold Printers Our high-speed, high-quality printers include performance features like 180 characters-per-second printing and double-strike power to handle up to five-part multi-copy forms.

2. iQUBE² Intelligent Junction Box Featuring the latest analog to digital technology for continuous scale monitoring and advanced diagnostics, iQUBE provides a value-added solution for multi-cell scale systems. A single-point ground system and fiber optic connections ensure the instrumentation is isolated from transient spikes in voltage.

3. Remote and Messaging Displays Featuring a super-bright LED display and a non-glare filtered lens, the SURVIVOR[®] LaserLight™ remote display and M-Series messaging remote display is clearly visible—even in direct sunlight. The unique IntelliBright™ feature uses a photo sensor to read ambient light to automatically adjust the display's intensity between day and night settings to optimize power usage. Increase truck throughput with the new 4" LaserLight with stop and go lights. The 4" and 6" LaserLight and 8 and 12-character M-Series models are available with visors.

4. Grounding Package This complete grounding package is recommended with the RailBoss system to protect each section from surges. Railway track scales of all types can be exposed to surges or lightning that may hit the rail from long distances. This package will isolate the sections of the rail track on both ends of the RailBoss sections. Ground rods will be driven into the ground between the rails and a braided cable will be connected to the rail on each side and connected with a copper wire. Rail joint bar isolators are installed on the approach and exit ends of the RailBoss sections.

Included with the grounding package:

- Rail Joint Bar Isolators
- Copper Clad Ground Rods 5/8" x 8'
- Ground Lugs and Braided Cable
- Uninterruptable Power Supply

920i[®] Indicator Specifications:

- Large (4.6" W x 3.4" H, 320 x 240 pixel) back-lit LCD graphical display
- Selectable character sizes from .25" to 1.2"
- Millivolt calibration, 5-point linearization and geographical calibration
- NEMA 4X/IP66 stainless steel enclosure
- Selectable A/D measurement rate up to 960/second
- Reflash memory to upgrade firmware
- RailBoss software for Full Draft and Double Draft applications
- Rail car ID entry
- Tare entry via keyboard or captured tare



RailBoss Standard Features

- A Double Draft system utilizes a single A/D card
- A Full Draft system utilizes a dual A/D card
- Gross or Gross/Tare/Net operation and tickets
- Scale and accumulated Gross/Tare/Net display simultaneously
- Optional Rail Car ID entry
- Optional tare entry via keyed tare or captured tare

RailBoss Specifications:

- Static Rail Car Weighing

Capacity

- 320,000 lb x 100 lb
- Axle Capacity: 80,000 lb
- Rail Truck Capacity: 160,000 lb
- Rail Size: 90RE, 115RE or 132RE (Custom rail sizes available)

Foundation

- None required; installs on existing ties and ballast.

Accuracy

- Full Draft Model $\pm 0.25\%$ or ± 200 lb
- Double Draft $\pm 0.4\%$ or ± 300 lb
- Non-Legal for Trade