

# RailBoss™

**RAIL** SCALE



**RICE LAKE®**  
WEIGHING SYSTEMS

**TOUGHEST  
SCALES  
ON EARTH.™**



**NASCO-OP™**  
Power of Numbers

**800.321.3396**  
**[www.nascoop.com](http://www.nascoop.com)**



Weigh rail cars before they leave the yard

# RailBoss<sup>TM</sup> rail scales fit your yard and 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 Rice Lake's RailBoss rail scale. It is less than one-third the cost of other rail scales and typically takes less than eight hours to install.

## Robust Rail Car Weighing

RailBoss is a series of five-foot, 10-inch rail sections fitted with strain gauges to accurately measure the total gross weight of 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. Rail cars can be positioned in various ways: track mobile, tug motors, locomotives or other convenient means. Once the rail car is in position, Rice Lake's 920i<sup>®</sup> indicator displays the weight.

RailBoss is designed for rail cars with five-foot, nine-inch to five-foot, 11-inch truck centers and can be installed in any location that has straight and level track for at least three car lengths. 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. Custom rail sizes are also available.

## Improving Efficiency and Savings

Running balanced rail cars at or near capacity assures the greatest efficiency and profit. RailBoss eliminates the guesswork of volumetric measuring and variable tare weights. With RailBoss, underloading, incorrect billing, overloading, rejection and fines can all be avoided.

RailBoss provides the accuracy needed for checkweighing, process monitoring, filling, record keeping and maintaining safe loads. Trains not being weighed can move across the scale at normal line speed without affecting the scale.

## Enhanced Features

RailBoss utilizes MS quick-disconnect cable connectors to reduce unexpected maintenance and repairs. The enhanced cable connectors automatically release before reaching damaging tension, saving valuable repair time and replacement costs.

RailBoss cable connectors are also compatible with comparable models, allowing simple and straightforward RailBoss installation on an existing rail scale track.



## Full-draft RailBoss

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



## 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 ideal when it is necessary to weigh a wide range of rail car sizes. Rice Lake's 920i<sup>®</sup> indicator instantly displays the individual rail truck weights and rail car total.



## Rice Lake 920i<sup>®</sup> indicator

RailBoss software 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, as well as gross, tare and net weights.

Rail car ID numbers can be input through the front panel, and an optional printer is available to provide a printed record of all transactions.



## Straightforward Installation

Without concrete to pour or foundation to prepare, installing RailBoss rail sections can be completed in a matter of hours by a qualified rail maintenance contractor. RailBoss installs on existing ties and ballast, and 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.

08/01/2015 10:32AM SCALE #1	
Scale #1	Scale #2
100050	97000
Ticket Printed - Exit Scale	
Rail Truck #1: 100050 lb	197050 lb Gross
Rail Truck #2: 97000 lb	98000 lb Tare
	99050 lb Net
Ticket Printed - Exit Scale	
Double Draft Reprint	

  

08/01/2015	
Scale #1	Scale #2
97000	
Ticket Printed - Exit Scale	
Rail Truck #1: 97000 lb	194000 lb Gross
Rail Truck #2: 97000 lb	98050 lb Tare
	95950 lb Net
Ticket Printed - Exit Scale	
Full Draft Reprint	



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## Complete your RailBoss with the highest quality accessories.

- 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 multicopy forms.
- 2. iQUBE<sup>2</sup> Intelligent Junction Box** Featuring the latest analog-to-digital technology for continuous scale monitoring and advanced diagnostics, iQUBE<sup>2</sup> provides a value-added solution for multi-cell scale systems. A single-point ground system and fiber-optic connections ensure 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<sup>®</sup> LaserLight™ remote display and M Series messaging remote display are 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, optimizing power usage. Increase truck throughput with the new four-inch LaserLight with stop and go lights. The four- and six-inch LaserLight and eight- and 12-character M Series models are also available with visors.
- 4. Grounding Package** Railway track scales of all types can be exposed to surges or lightning that may hit the rail from long distances. Recommended for all RailBoss systems, this package isolates the sections from the rail track on both ends of RailBoss sections, protecting them from surges. Ground rods are installed between the rails and a braided cable connects to the rail on each side and connects with a copper wire.

The grounding package includes:

- Copper-clad ground rods 5/8 in x 8 ft
- Ground lugs and braided cable
- Uninterruptable power supply

### 920i<sup>®</sup> Indicator Specifications

- (W x H) 4.6 x 3.4 in, 320 x 240 pixel, backlit LCD graphical display
- Selectable character sizes from .25 to 1.2 in
- Millivolt calibration, five-point linearization and geographical calibration
- NEMA Type 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

- Double-draft system utilizes a single A/D card
- Full-draft system utilizes a dual A/D card
- MS quick-disconnect cable connectors
- 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 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  $\pm 200$  lb
- Double-draft model  $\pm 0.4\%$  or  $\pm 300$  lb
- Non-Legal for Trade

Your Rice Lake Weighing Systems distributor is:



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