

# Railroad Track Weighing Solutions



**RICE LAKE**<sup>®</sup>  
WEIGHING SYSTEMS

800-472-6703

[www.ricelake.com](http://www.ricelake.com)

# How Do I Know Which Rail Scale I Need?

## Do You Need Legal for Trade Approval?

**YES**

**I DO need a Legal for Trade scale**

The first question you need to answer when determining what type of rail scale to purchase is: Do I need a Legal for Trade rail scale? If you plan to sell product using the weight readout from your rail scale, the answer is definitely yes. Legal for Trade is a certification controlled by Weights and Measures agencies to ensure the weighing system is accurate enough to allow fair commerce using the weight readout of the system. Rail scale Legal for Trade applications include purchasing incoming goods by weight, and issuing tolls, overload fines and other regulatory fees by weight. If you need a Legal for Trade railroad scale, Rice Lake offers NTEP Certified and Measurement Canada Approved rail scales.

Legal for Trade rail scales are typically more precise and are usually permanent rail car weighing solutions. Because these systems tend to be more complex and require a concrete foundation, Legal for Trade rail scales have a longer installation time and generally require a larger up-front investment.

If you do not need Legal for Trade approval, you might be using your rail scale for checkweighing rail cars, tracking inventory, verifying safe loads and performing non-commercial filling operations. Non-Legal for Trade rail scales can usually be installed in as little as one day, and because most do not require a concrete foundation or reconstruction, systems are installed at a fraction of the cost of traditional foundation scales.

**NO**

**I DO NOT need a Legal for Trade scale**

## Non-Legal for Trade Rail Scales

There are many advantages to purchasing a non-Legal for Trade rail scale, including the short installation time and affordability. Rice Lake offers the RailBoss® as a heavy-duty and accurate checkweighing rail scale for non-Legal for Trade applications. Unlike SURVIVOR rail scales, RailBoss does not need a concrete foundation, and the system is relatively straightforward. The RailBoss system replaces current lengths of rail with, essentially, a piece of rail with an integrated load cell. Flexibility and minimal downtime are the key advantages for RailBoss. The cost of purchasing and installing a RailBoss is usually returned many times over during its lifetime because of the ability to ensure optimal safe loads, deter overload fees and verify product weights.

Non-Legal for Trade railroad scales are ideal for many applications, including the following:

- Determining the gross or tare weight for rail cars
- Verifying weights of outbound rail cars do not exceed overload limits
- Ensuring rail car loads are safely balanced
- Checkweighing inbound rail cars
- Filling rail cars to the optimal weight within legal limits
- Incoming and outgoing inventory verification

### RailBoss Foundationless Railroad Scale

RailBoss is a non-NTEP rail car weighing system that consists of heavy-duty gauged rail sections. These rail scale sections replace existing rail and become seamless additions to the track. Each rail scale section is a separate weighbridge, and statically weighs a single wheel of a rail car. The weights are then automatically combined into a gross rail car weight.

Systems are available in a full-draft or double-draft configuration:

- Each rail section length is 5 ft, 10 in
- Full-draft systems include 8 rail sections
- Double-draft systems include 4 rail sections

RailBoss can be installed on existing ties and ballast, and is accurate to 0.25% for a full-draft system and 0.4% for a double-draft system. Since it does not require a pit or concrete foundation, RailBoss typically costs less than one-fourth of conventional rail scales. The system can generally be installed in a single day, minimizing disruption of rail traffic or shutdown of a rail spur.





# Legal for Trade Rail Scale

Legal for Trade rail scales are the most durable and accurate railroad scales you can install. With a concrete foundation and the ability to be customized for each application, traditional Legal for Trade railroad track scales will provide the utmost in longevity and accuracy. Rice Lake offers two models of Legal for Trade rail scales, the SURVIVOR® PL and SURVIVOR RT. Both scales are Class IIIIL in accordance with NIST, AAR and AREMA requirements. These scales also use a heavy-duty industry standard design, making them the toughest rail scales on the market. The most distinct difference between the PL and RT is whether you need to use the system for only rail car weighing with the PL, or rail car and truck weighing with the RT.

## SURVIVOR PL Series **Modular Railroad Scale**



The PL Series is a low-profile, modular design rail scale available in several platform sizes to provide maximum flexibility in rail car weighing applications. With the largest variety of scale platform sizes, Rice Lake can customize platform combinations to your specific car lengths. This unique advantage allows you to install scale platforms large enough for your needs without excess—saving you space and most importantly, cost.

PL Series rail scales are available in multiple module configurations:

- Single
- Double
- Single/Single
- Double/Double
- Single/Double

The length of the intermediate space (dead section) is determined by the length of the shortest and longest cars that will be weighed. The system is designed to weigh both rail trucks (the sets of rail car wheels) at the same time, determining the gross rail car weight in a single weighing.

The PL Series meets exacting standards for the following regulations:

- AREMA
- Cooper E-80
- AAR
- NTEP Certified and Measurement Canada Approved Legal for Trade

## SURVIVOR RT Series

### **Pit Type, Combination Railroad/Truck Scale**



RT Series rail scales are ruggedly designed for installation in a conventional rail scale pit, accommodating both rail and truck traffic, making it the more diversified railroad track weighing system. The RT Series is designed to weigh an entire rail car statically.

The RT Series offers many optional features:

- Grain dumps
- Rail filling applications
- Steel or concrete decks

The RT Series meets exacting standards for the following regulations:

- AREMA
- Cooper E-80
- AAR
- NTEP Certified and Measurement Canada Approved Legal for Trade

## The Heavy Capacity Advantage from Rice Lake

Rice Lake provides unmatched customer service, 24 hours a day, seven days a week, 365 days a year. We strive to design, manufacture and support the best weight-related heavy capacity equipment in the world. We develop and refine our products to suit your specific and unique requirements, and our extensive dealer network is your local source for ongoing service.

**For more information about Rice Lake's line of railroad scales, visit [www.ricelake.com/railscales](http://www.ricelake.com/railscales).**



# Railroad Track Weighing Solutions

## Complete your scale with the highest quality accessories.

The toughest scales on Earth deserve the best...

- 1. HMI Digital Weight Indicators** We offer a complete line of weight indicators, including models that can store up to 1,000 truck ID numbers and truck tares. They are available in standard or NEMA stainless steel enclosures.
- 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 the instrumentation is isolated from transient spikes in voltage.
- 3. 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.
- 4. OnTrak<sup>™</sup> Data Management Software** OnTrak is easy to use and network capable with full reporting, accounting, and invoicing features that connect your scale to your office computer and accounting system.
- 5. Traffic Signals** Rice Lake's traffic signal housing meets or exceeds ITE specifications. Kits are Intertek/ETL certified and listed on the ETL certification program. Stainless steel light hardware and a 4.5-inch aluminum pole hold up to harsh weather conditions. Temperature compensated power supplies ensure long LED light life.
- 6. Remote Displays** Featuring a super-bright LED display with non-glare lens, the LaserLight<sup>2</sup> remote display provides weight, numeric data and messages with seven-segment, six-digit characters that are easy to read. Mounting options include a flange tab for vertical surface or pole mounting, or a VESA mounting bracket for increased versatility.
- 7. RFID Readers** RFID cards, keys and tags speed up railroad weighing traffic flow and remotely identify rail cars with radio frequency identification (RFID). Rice Lake offers a selection of devices to meet the needs of nearly any process.



## Inquire about our full line of vehicle scales tailored to your specific application needs.



**SURVIVOR<sup>®</sup> SR**  
Extreme-duty, concrete or steel deck siderail scales



**SURVIVOR<sup>®</sup> OTR**  
Top access, concrete or steel deck scales



**SURVIVOR<sup>®</sup> PT**  
Pit-type concrete or steel deck scales



**SURVIVOR<sup>®</sup> ATV**  
Rugged, portable steel deck scales

## Reasons to buy a SURVIVOR RAIL Series Railroad Scale



**Selection** Choose from the SURVIVOR PL low profile, pitless modular design or the SURVIVOR RT pit-type combination rail/truck scale. Both designs possess Rice Lake's industry-leading features and legendary durability.

**Dependable** Perfect for customers who demand reliability, accuracy, and confidence in a rail scale system.

**Durable** Designed to provide decades of dependable operation with low maintenance costs and less downtime.

**Performance** Ideal for use in heavy traffic areas where high-accuracy, Legal for Trade weighing is required.

**Craftsmanship** Best-in-class weighbridge design creates a rugged, heavy duty weighing system that exceeds AREMA and Cooper E-80 design specifications.

**Flexible** Available in a wide range of platform widths and lengths to accommodate most weighing applications.

Your Rice Lake Weighing Systems distributor is:

**RICE LAKE**  
WEIGHING SYSTEMS

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