

# SURVIVOR<sup>®</sup> OTR SERIES

STEEL DECK TRUCK SCALES



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

800-472-6703

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



LAKE  
**JRVIVOR**  
TOUGHEST TRUCK SCALES ON EARTH

# Uncompromising SURVIVOR<sup>®</sup> Strength

Selecting a steel deck truck scale means choosing a long-lasting, quick-to-install vehicle weighing solution. The SURVIVOR OTR steel deck is designed to reduce downtime by simplifying installation and maintenance.

## More Structural Steel

Rice Lake Weighing Systems' SURVIVOR truck scales are constructed with up to 25% more structural steel than competitor models, providing the increased deck support and weighbridge strength necessary to last a generation or more.

Making the Toughest Truck Scales on Earth<sup>®</sup> begins with design. Rice Lake's engineering team uses Finite Element Analysis (FEA) technology to identify key stress points on truck scales. This data is used to design scales with superior structural integrity, which provides maximum durability for your investment.

## Long-Lasting Value

These design elements allow SURVIVOR OTR truck scales to accommodate a minimum of 250 trucks every day for 25 years without weighbridge fatigue—the equivalent of more than 2 million vehicle weighments.

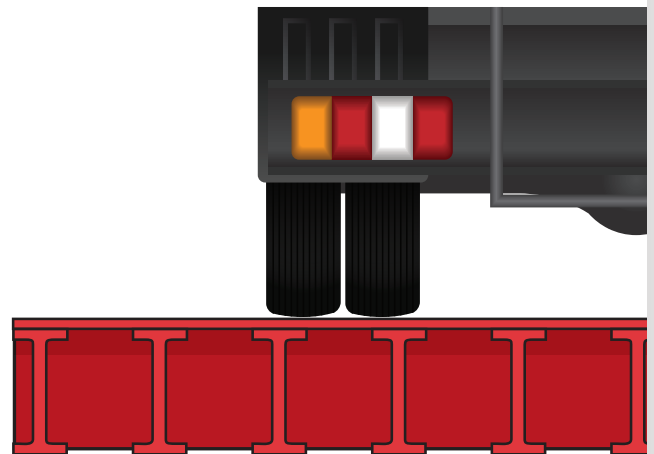
Rice Lake's warranty covers load cells, junction boxes and suspension systems to ensure worry-free operation. SURVIVOR OTR truck scales also include a lightning protection package, and weighbridges are warranted against defects in materials and workmanship. Rice Lake offers either a 5-year or industry-leading 12-year warranty from delivery.

## Durable Steel Deck Construction

The wide-flange I-beam construction of SURVIVOR truck scales minimizes deflection, which has a major impact on the life of the weighbridge. Deflection is the change, or bend, along the primary axis between no-load and rated load conditions. When a vehicle drives onto the scale, there will be longitudinal deflection and the heavier the vehicle is, the greater the deflection will be.

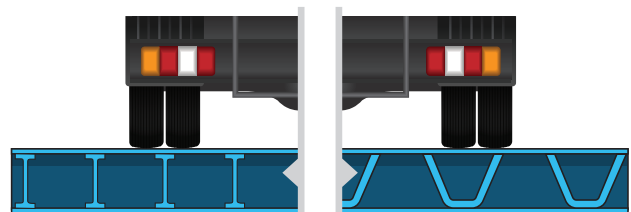
## Reliable Steel Deck Design

SURVIVOR scales incorporate more longitudinal beams than other manufacturers to better support the weighbridge and ensure structural stress remains below fatigue limits during deflection. This design supports vehicle tires across the entire weighbridge deck.



## Competitor Designs

Most other manufacturers use fewer I-beams or bent-channel beams to reduce initial scale cost. However, these designs reduce structural integrity, causing greater deflection—shortening the lifespan of the weighbridge. Additionally, some designs require top and bottom deck plates, trapping corrosion-causing moisture inside the weighbridge.



Junior I-Beam Construction

Bent Plate Construction

## Breathing Room Below

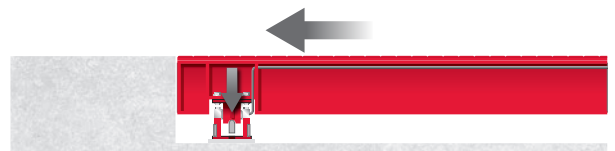
SURVIVOR OTR steel deck truck scales have an open-bottom design, using only a top deck plate on the weighbridge. This eliminates the cavity where condensation can collect, helping to prevent premature system failure due to rusting components.

## P-Bracket Installation

SURVIVOR truck scales use self-seating P-brackets that simplify weighbridge module connection. The P-bracket design eliminates the need to bolt modules together, ensuring proper vehicle loading during environmental temperature changes that cause modules to expand or contract.

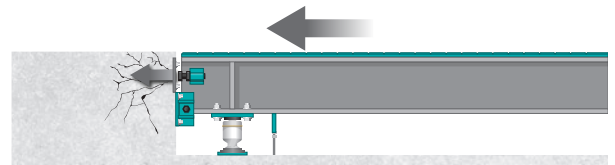
## Self-Checking Mounting System

The G-Force™ self-checking mounting system on SURVIVOR truck scales eliminates excess movement and scale fatigue by using 100% of the gravitational force from the vehicle loading action against itself. This allows the scale to return to center without the use of check rods and bumper bolts.



### G-Force Mounting System

The vehicle loading force is directed down to the load cell mounts, minimizing foundation wear.



### Check Rod and Bumper Bolt System

The vehicle loading force is directed horizontally into the foundation, resulting in costly maintenance.

## Load Cell Pockets

The load cell pockets on SURVIVOR truck scales are integrated into the longitudinal beams, providing a stable framework for suspension components and reducing structural fatigue on the ends of the weighbridge.

SURVIVOR load cell pockets also feature boltless top access plates. This design allows load cells and electronics to be accessed from the top of the scale deck for convenient maintenance. Boltless covers also reduce downtime by eliminating the time-consuming work of removing bolts that have been frozen or rusted in place.



# SURVIVOR<sup>®</sup> OTR SERIES STEEL DECK



## Elevate Your Truck Scale Performance with iQUBE<sup>2</sup><sup>®</sup>

Rice Lake's iQUBE<sup>2</sup> digital diagnostic junction box performs the same diagnostic functions as a scale that uses a digital load cell, but at a more cost-effective price and with more benefits.



This advanced junction box runs diagnostics for failed load cells, weighing errors and overall system health. Additional benefits include being less susceptible to damage from vibration and moisture, sending email alerts to a designated service provider and using load cell emulation to ensure your scale can weigh temporarily even after a cell failure.

### SURVIVOR OTR STEEL DECK SPECIFICATIONS

<b>LOAD CELLS:</b>	Rice Lake RL75058-LP alloy steel, Double-ended beam 75,000 lb capacity
<b>MOUNT ASSEMBLIES:</b>	G-force self-checking mounting system
<b>JUNCTION BOX:</b>	JB8SPT Tuffseal <sup>®</sup> polycarbonate NEMA Type 4X enclosure with overlapping solid cover, stainless steel screws
<b>PLATFORM SIZE:</b>	10 to 160 ft length 10 ft, 11 ft and 12 ft width, NTEP Certified up to 16.5 ft (custom length and width available)
<b>SCALE PROFILE:</b>	16.5 in or 18.75 in (custom profiles available)
<b>DECK THICKNESS:</b>	5/16 in (other sizes available)
<b>FULL SCALE CAPACITY:</b>	Up to 270,000 lb
<b>CONCENTRATED LOAD CAPACITY (CLC):</b>	100,000 lb
<b>DUAL TANDEM AXLE (DTA):</b>	100,000 lb
<b>WARRANTY:</b>	Weighbridge: 5-year or 12-year limited Parts: 5-year or 12-year limited, including lightning protection
<b>APPROVALS:</b>	NTEP CC 02-003, Class IIII Measurement Canada AM-5413

### SURVIVOR OTR STEEL DECK STANDARD FEATURES

- Open bottom design
- Longitudinal I-beam construction
- Integrated load cell pockets
- Boltless, top access to load cells and junction box
- Self-seating, P-bracket connection between modules
- G-force mount assemblies return the scale to center without check rods or bumper bolts
- Cables completely encased in rodent-proof conduit
- Thorough finishing process includes cleaning of steel before and after welding, followed by either high solids urethane liquid paint or durable powder paint

### OPTIONS

- 10 lb division for truck or livestock
- 20 lb division
- 50 lb division/400,000 lb capacity
- 1/2, 3/8, or 1 inch deck plate upgrade
- Schedule 40 guiderails
- Schedule 80 guiderails
- Manhole
- Slotted manhole
- Grain dump
- Dolly down plate
- End cleanout
- Stainless steel load cells
- Tapered links and radius blocks
- Pre-suspended load cells and mounts
- Stainless steel suspension hardware
- Galvanized weighbridge and suspension hardware
- Custom coatings
- 3/8 inch runners
- Roll-off
- Side deflector plates
- Catwalk
- Landing with stairs
- iQUBE<sup>2</sup><sup>®</sup> digital diagnostic junction box bundles