

SURVIVOR[®] OTR SERIES

CONCRETE DECK TRUCK SCALES



RICE LAKE[®]
WEIGHING SYSTEMS

800-472-6703

www.ricelake.com

Uncompromising SURVIVOR[®] Strength

Concrete deck truck scales provide reliable traction in wet or icy weather conditions, and resist corrosion—extending the weighbridge’s lifespan. SURVIVOR OTR concrete deck truck scales have greater mass than steel deck scales, resulting in less friction 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[®] 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.

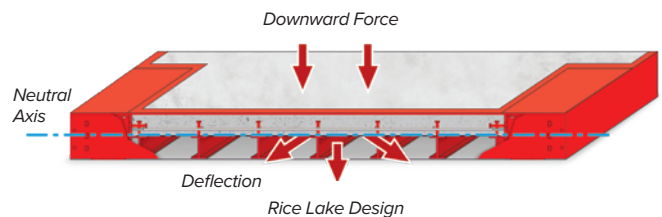
Rice Lake’s warranty covers load cells, junction boxes and suspension systems to ensure worry-free operation. SURVIVOR OTR truck scales also include a lightning protection package, and weighbridges are warranted against defects in materials and workmanship. This warranty is available in either 5 years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

Reliable Concrete Deck Design

Concrete deck truck scales offer improved load distribution to withstand movements caused by heavy trucks entering and exiting the weighbridge.

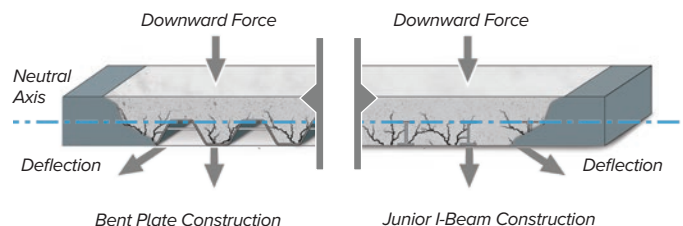
The neutral axis on a truck scale is the point where no compression or tension occurs when a vehicle is on the weighbridge. In a concrete deck truck scale, this represents the point where concrete shifts from expected compression to damaging tension.

The six-inch-thick concrete deck of a SURVIVOR OTR sits above the weighbridge’s neutral axis. It is supported by a six-inch steel deck substructure incorporating galvanized steel sheets and I-beams, which increases strength throughout each module.



Competitor Designs

Many competitive weighbridges try to compensate for lighter steel or a lack of steel components by pouring a 9-, 10- or 12-inch concrete deck, often extending below the neutral axis. This can result in dangerous concrete bending, which can cause surface cracks after just a short period of use.



Concrete Poured On-Site

SURVIVOR concrete deck truck scales are shipped and installed before the concrete deck is poured. This reduces shipping costs and helps ensure there is no damage to the weighbridge during transit.

Ready to Pour

Nelson studs and galvanized support pans are factory placed so concrete can be poured right away.

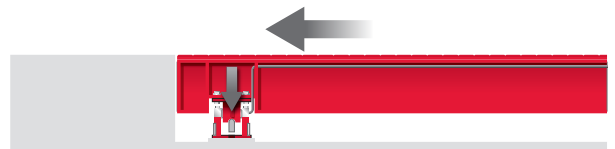
P-Bracket Installation

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.



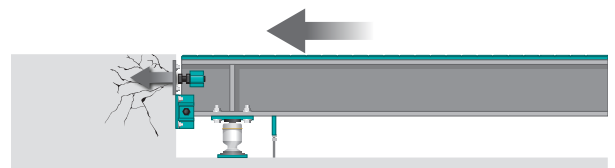
Self-Checking Mounting System

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.



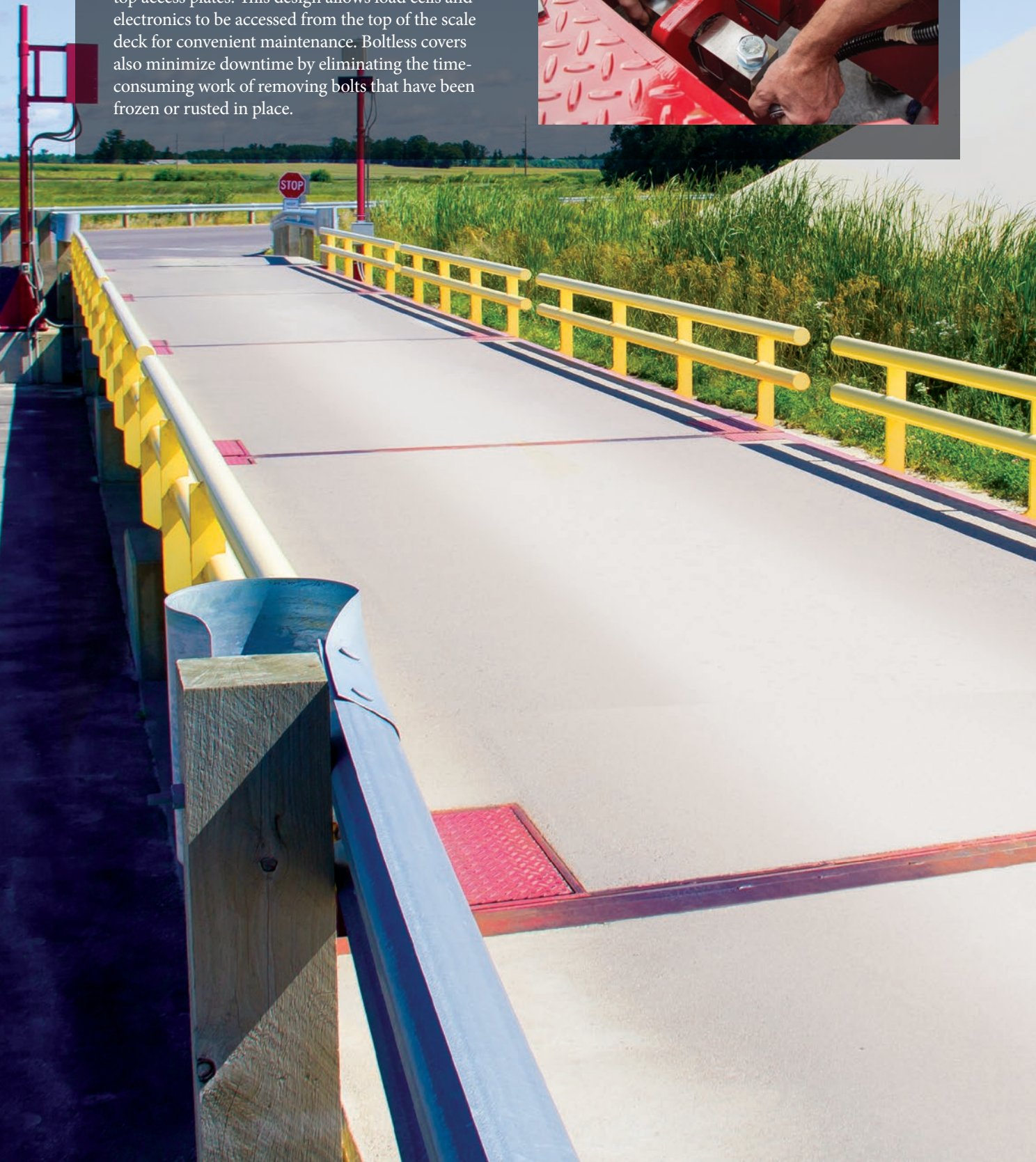
Check Rod and Bumper Bolt System

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 minimize downtime by eliminating the time-consuming work of removing bolts that have been frozen or rusted in place.





RICE LAKE
SURVIVOR
TOUGHEST SCALES ON EARTH

Elevate Your Truck Scale Performance with iQUBE²[®]

Rice Lake's iQUBE² 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 CONCRETE DECK STANDARD FEATURES

- Concrete deck sits above neutral axis, supported by 6-inch steel deck substructure
- Longitudinal I-beam construction
- Integrated load cell pockets
- Boltless, top access to load cells and junction box
- Self-seating, P-bracket connection between modules
- 6-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-pound capacity
- Schedule 40 guiderails
- Schedule 80 guiderails
- Manhole
- Slotted manhole
- Grain dump
- 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
- Side deflector plates
- Catwalk
- Landing with stairs
- iQUBE²[®] digital diagnostic junction box bundles

SURVIVOR OTR CONCRETE DECK SPECIFICATIONS

LOAD CELLS:	Rice Lake RL75058-LP alloy steel, Double-ended beam, 75,000 lb capacity
MOUNT ASSEMBLIES:	6-force self-checking mounting system
JUNCTION BOX:	JB8SPT Tuffseal [®] polycarbonate NEMA Type 4X enclosure with overlapping solid cover, stainless steel screws
PLATFORM SIZE:	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)
SCALE PROFILE:	16.5 in or 18.75 in (custom profiles available)
DECK THICKNESS:	6 in
FULL SCALE CAPACITY:	Up to 270,000 lb
CONCENTRATED LOAD CAPACITY (CLC):	100,000 lb
DUAL TANDEM AXLE (DTA):	100,000 lb
WARRANTY:	Weighbridge: 5-year or 12-year limited Parts: 5-year or 12-year limited, including lightning protection
APPROVALS:	NTEP CC 02-003, Class IIII Measurement Canada AM-5413