

# The Rice Lake SURVIVOR® Truck Scale Advantages (Concrete)

**RICE LAKE**  
WEIGHING SYSTEMS  
To be the best by every measure™  
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# 1



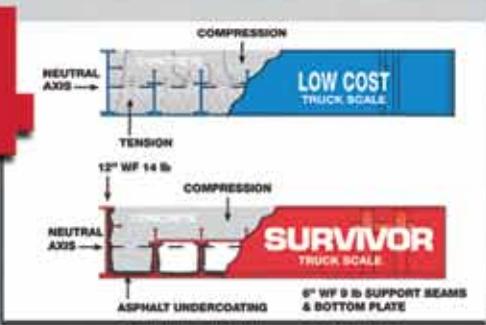
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**Stronger Weighbridges:** Rice Lake truck scales typically have up to 30% more structural steel content than competitive models. The SURVIVOR® OTR 11' wide model uses (2) 12" wide flange, 14 lbs per foot main beams, (7) 6" wide flange, 9 lbs per foot support beams per module, 3/16" lower plate and Nelson studs. Less bridge deflection means longer scale life.

## The Rice Lake OTR Concrete Deck

**Design:** Galvanized plates are installed at the factory and serve as the forming pan for the concrete deck. The module arrives on job site fully assembled, and does not require shoring during pouring of deck.

**Steel Preparation:** All Rice Lake truck scales are steel shot blasted, cleaned with a hot cleaning solution, primed with a high solids urethane primer and finished with a coat of high solids urethane paint. All non-visible steel areas are coated with a BASF Degacoat 310.

**100,000 lb CLC/DTA:** The OTR concrete deck is designed to keep the concrete in a compression application above the neutral axis of the structure. Steel elements are properly used in both a tension and compression application. Most competitive designs subject the deck to dangerous tension forces that can result in cracking and a premature failure of the structure.

**Boltless Top Access Covers:** mean no lost, loose, or broken bolts to worry about. Access covers are form-fitted, pegged and weighted. Boltless access covers provide the service technician instant access to the load cell pocket, reducing service calls.

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**Rock Guards:** are welded to perimeter of scale for pit installations, and ends of scale for top of ground installations. Small rocks that can wedge between the head wall or side walls causing scale errors are eliminated.

7



## Integrated Load Cell Pocket Design:

The load cell pocket fabricated from  $\frac{3}{4}$ " steel plate and is reinforced with laser cut mortise and tenon joints with welded WF beams on each side of the box. Most competitive end-boxes are flat welded to the end of the module and are fabricated from  $\frac{1}{2}$ " or  $\frac{5}{8}$ " material.

8



**Span Deflection Ratio:** The span deflection ratio for the OTR SURVIVOR® Truck Scale has been calculated at 1:1300 under legal highway loading at mid span of module.

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## Rugged 75,000 lb Capacity Load Cells:

75K rigidly mounted shear beam load cells with single link suspension system. Load cells are manufactured from superior 4340 nickel plated alloy steel. Rocker column or compression load cells that must be loaded vertically, and require end bumper bolts and plates to check the momentum of the bridge.

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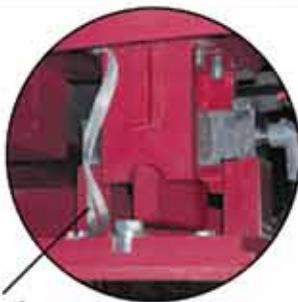
**Rice Lake TuffSeal™:** Fiberglass Reinforced Polyester (FRP) FRP Junction Box enclosure features a "Gore"™ PreVent membrane that equalizes the inside and outside pressure. Water is repelled but a special hydrophobic (water-fearing) membrane continuously allows condensation to escape.

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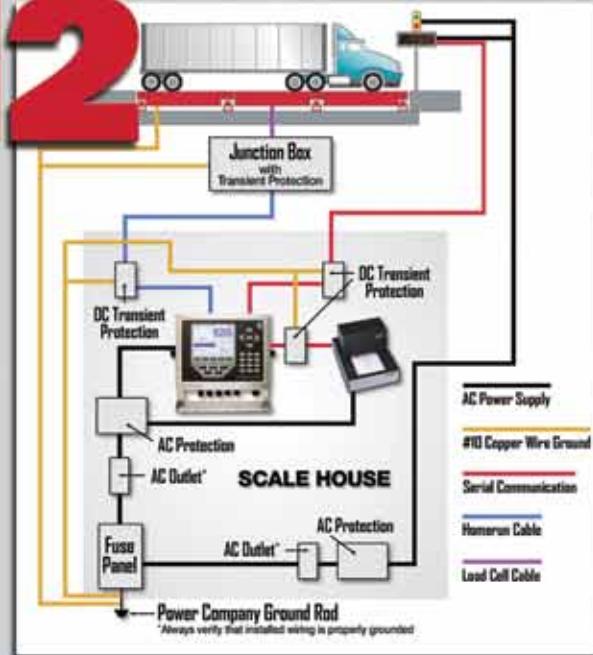
# 11



Transient  
Bypass Cable

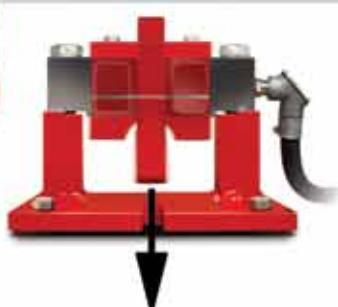
**Wire Braided Copper Transient:** By-pass cables at each load cell mount help route surges around the load cell to ground rather than through it. The number one cause of load cell failures are lightning strikes that travel through the weighbridge and load cells, damaging load cells.

# 12



**Lightning Protection:** Every SURVIVOR® Truck scale comes complete with a Surge Voltage Protection System that includes a UPS 2000 Sola Duplex Transformer. The junction box is provided with individual UJB-3T6 DC transient circuitry protection. The entire system is grounded to a single-point grounding system connected to the power ground. Our scales come with a five-year warranty on the load cells and junction box, and either a five- or ten-year warranty on the weighbridge.

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**G-Force™ mounting arrangement:** is self-checking and totally eliminates the need for check rods, or bumper bolts. All load cells are fitted with flex-conduit hub fittings to protect cables.