

# SURVIVOR<sup>®</sup>

**OTR-XV** SERIES

EXTREME DUTY VEHICLE SCALE



**TOUGHEST  
TRUCK SCALES  
ON EARTH<sup>®</sup>**

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

800-472-6703  
[www.ricelake.com](http://www.ricelake.com)

# SURVIVOR®

# OTR-XV SERIES

EXTREME DUTY VEHICLE SCALE

# Ultimate Strength

## for vehicles up to 400,000 pounds

Maximum capacity, challenging environments and constant traffic—Rice Lake's OTR-XV survives it all.

Ideal for ultra-high capacity vehicle weighing applications such as mining, coal, oil fields, forestry and construction materials, Rice Lake's OTR-XV extreme duty vehicle scales are the toughest in the industry.

Whether you choose concrete or steel deck, both models feature wide-flange I-beam construction to minimize deflection or vertical flexing—a major factor in determining weighbridge lifespan. Many other manufacturers use lighter beams and bent plates in the middle of the bridge, or may space beams farther away from the center of the module to reduce the cost of the scale. Over time, this type of bridge can bow, causing inaccuracies in weighments, scale downtime and eventually scale failure.

The OTR-XV 11-foot-wide steel deck design features 14-inch, wide flange beams on 11.5-inch centers running longitudinally with the traffic flow beneath up to two-inch diamond check steel top plate. The concrete deck option features 14-inch main beams and 8-inch beams under a 6-inch thick slab of concrete.



**End View SURVIVOR Truck Scale Steel Deck**



14-inch wide-flange beams on 11.5-inch centers, open bottom eliminates rust-causing moisture

**End View Competitor Model**



Lighter bent plate, closed bottom where moisture can collect and cause rust



# TOUGHEST TRUCK SCALES ON EARTH®

## Long-lasting Value

SURVIVOR OTR-XV truck scales are designed to accommodate a minimum of 250 trucks per day for 25 years without weighbridge fatigue—equivalent to more than 2 million weighments. Optional enhancements can be added to accommodate 400 or more trucks per day for 25 years. Rice Lake's warranty covers load cells, junction boxes and suspension systems to ensure worry-free operation. SURVIVOR OTR-XV truck scales also include a lightning protection package, and weighbridges are warranted against defects in materials and workmanship. This warranty is available for a choice between five and an industry-leading 12 years from delivery.

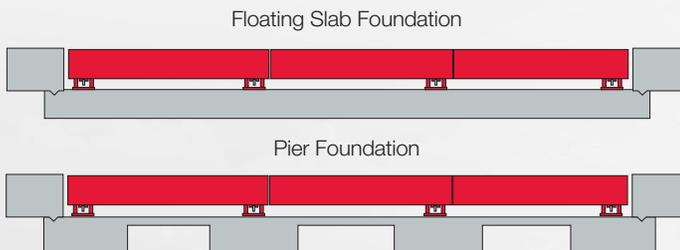


## Tough from Start to Finish

Steel deck OTR-XV truck scales go through an extensive finishing process: blast-cleaning to remove mill scale and surface imperfections, maximum coating adhesion preparation, high-solids urethane primer and paint application, and an asphalt emulsion undercoating on all non-visible steel surfaces.

## A Solid Foundation

Matching the correct foundation to specific soil conditions is critical to scale performance. Factory specialists and authorized distributors will assist in specifying the proper type for each application site. Professional engineer-certified prints are available to further ensure a quality foundation.



## Advanced Design

PE-certified Rice Lake design engineers use the most advanced Finite Element Analysis (FEA) technology to examine high-stress areas and design SURVIVOR truck scales based on actual loading characteristics. Custom sizes are a standard procedure and can be manufactured to easily fit existing foundations.

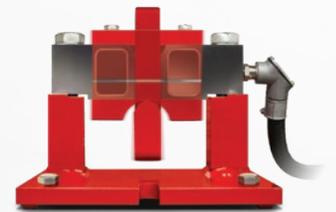
## Integrated Load Cell Pockets

Top access to load cells and junction boxes through an integrated load cell pocket ensures easy installation and maintenance. Load cell pockets are made with heavy-duty steel plates incorporated into the design of the scale, adding extraordinary strength and integrity to a critical area of the weighbridge.



## Self-checking Mounting System

Rice Lake's G-Force™ self-checking mounting system eliminates excess movement and scale wear by using 100% of the gravitational force from the loading action against itself, returning the scale to center without check rods or bumper bolts.



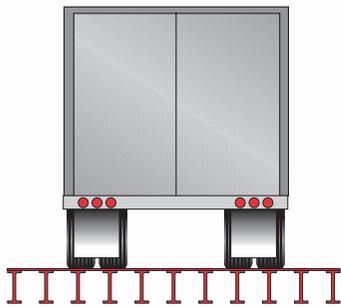
## Breathing Room Below

The SURVIVOR OTR-XV steel deck features an open-bottom design, eliminating the cavity where rust-causing moisture can collect. Rice Lake's unique asphalt emulsion coating or durable powder coat is applied to all non-visible steel surfaces and undersides, adding extra protection from moisture and corrosive elements to prolong the life of the scale.

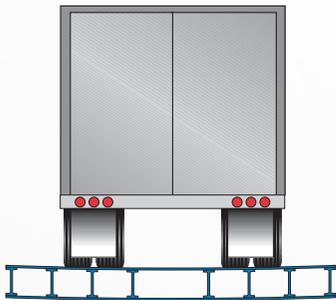




Compared to competitors, Rice Lake's truck scales offer more support under the tires, minimizing deflection and increasing the life of the weighbridge.



Competitor



## **SURVIVOR OTR-XV** STEEL DECK

### **Performance**

- Up to 200 ton gross weight capacity
- 140,000 lb concentrated load capacity (CLC)
- 140,000 lb dual tandem axle rating (DTA)
- 125,000 lb capacity load cells and mounts
- NTEP Certified Legal for Trade up to 16.5 feet wide

### **Advantage**

- Asphalt emulsion undercoating protects weighbridge
- Top access to load cells and junction boxes
- Factory installed metal conduit and flex-conduit hub fittings protect load cell cables
- 3/8 in to 2 in thick diamond checkered steel top plate
- 19 in profile with 4 in cleanout or 21 in profile with 6 in cleanout





## Advanced Load Cell Diagnostics with iQUBE²

Digital truck scales perform analog-to-digital conversion in one of two places: the load cell or the junction box. Conversion and diagnostic activity will take place at the load cell if there is an analog-to-digital converter onboard. It is then simply referred to as a “digital” load cell.

Using Rice Lake’s iQUBE², however, a truck scale with an analog load cell can provide diagnostic information. Because conversion takes place at the junction box, sensitive electronics are protected from damaging environmental threats like vibration, extreme temperatures and moisture. iQUBE² digitally monitors and communicates load cell performance, complemented by unparalleled speed and communication.

- Delivers enhanced diagnostics at a fraction of the cost of a digital load cell
- Displays and tracks performance, weight information, changes in dead load and load cell output relative to adjacent cells for each load cell
- Monitors A/D conversion, excitation and communication in real-time
- Tunable diagnostics for return to zero, drift, noise and linearity help assess weighing performance
- Each load cell operates independently, improving the signal-to-noise ratio
- Uses cell emulation to ensure your scale can weigh temporarily even after a load cell failure
- Provides diagnostic LEDs for displaying load cell health, communication port activity, processor heartbeat and digital I/O functionality
- Sends email alerts to a designated service provider if a problem is detected



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# SURVIVOR<sup>®</sup> OTR-XV SERIES

EXTREME DUTY VEHICLE SCALE

## Automate Your Truck Scale

Build automation into truck scale operations with peripheral scale accessories, advancing safety and efficiency for heavy-capacity applications.

### Boost Process Efficiency

Ultimately allowing more trucks to move over the scale, automation improves traffic flow at any site and reduces data input errors. Trucks can be preassigned an identification number and routed through the weighing site with one or multiple traffic lanes, requiring fewer stops. Transfer weight data quickly with a variety of communication options, high-speed printing and customizable software. Automation gets drivers back on the road faster—delivering more product and yielding higher profits.



### Automated Systems Add Safety

Rice Lake offers automated kiosks and truck scale accessories to promote safety for truck drivers and site employees. Ticketing kiosks allow drivers to check in, weigh in and out, and print tickets automatically without exiting the cab of the truck. Traffic signals, gates and remote displays can be queued to route trucks safely and quickly through the weighing process, minimizing driver time on the property.

SALES AND TECHNICAL ASSISTANCE

**RICE LAKE**<sup>®</sup>  
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