

# SURVIVOR<sup>®</sup>

## OTR SERIES

TOP ACCESS LOW PROFILE  
CONCRETE & STEEL DECK  
TRUCK SCALES



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





NTEP-certified widths to 16.5 feet!

## **SURVIVOR® OTR™**

**Concrete or Steel Deck Top Access**

### **Performance...**

- Up to 270,000 lb gross weight capacity
- 100,000 lb concentrated load capacity (CLC)
- 100,000 lb dual tandem axle rating (DTA)
- Strongest weighbridge for long-lasting durability
- 75,000 lb capacity load cells and mounts
- Span deflection ratio 1:1200 for legal highway loads on steel deck model; 1:1300 for legal highway load on concrete deck model
- Faster, more accurate weighments—less wear with G-FORCE™ mounting system

### **Features...**

- Asphalt emulsion undercoating
- Top access to load cells and junction boxes for easy installation and maintenance
- NTEP-certified widths to 16.5 feet for faster processing of trucks and added safety for drivers
- All load cell cable is run through factory-installed metal conduit with flex-conduit hub fittings from load cell to provide ultimate protection
- Ideal for both aboveground and pit applications
- Dimensioned to easily fit existing foundations

### **and Value.**

- More steel and more standard features than competitive models
- Five-year weighbridge and electronics guarantee
- Manufactured in accordance with ISO 9001 guidelines



**We put more  
into them.  
Expect more  
out of them.**

The compact, low-profile SURVIVOR® OTR installs quickly—ready to weigh heavy loads and withstand constant traffic.

Both the OTR concrete and steel deck modules feature wide flange I-beam construction and are built to meet federal bridge standards.

The steel deck design features twelve 12" wide flange beams on 12" centers running longitudinally with the traffic flow beneath a 5/16" diamond plate deck. The concrete deck features 12" main beams and 6" beams under a 6" thick slab of concrete. The wide flange I-beam construction helps minimize deflection (vertical flexing), a major factor in determining the life of the weighbridge. An industry-leading 100,000 lb CLC means you'll have consistent, accurate weighments, even under the toughest conditions. SURVIVOR OTR scales are designed to accommodate a minimum of 250 trucks per day for 25 years without weighbridge fatigue—equivalent to over 2 million weighments.

PE-certified Rice Lake design engineers used the most advanced FEA (Finite Element Analysis) software to examine high stress areas and designed SURVIVOR truck scales based on actual loading characteristics. Rice Lake's patented load cell suspension design delivers reliable, legal-for-trade accuracy. And all these real-world advantages are backed up with a class leading five-year weighbridge guarantee.

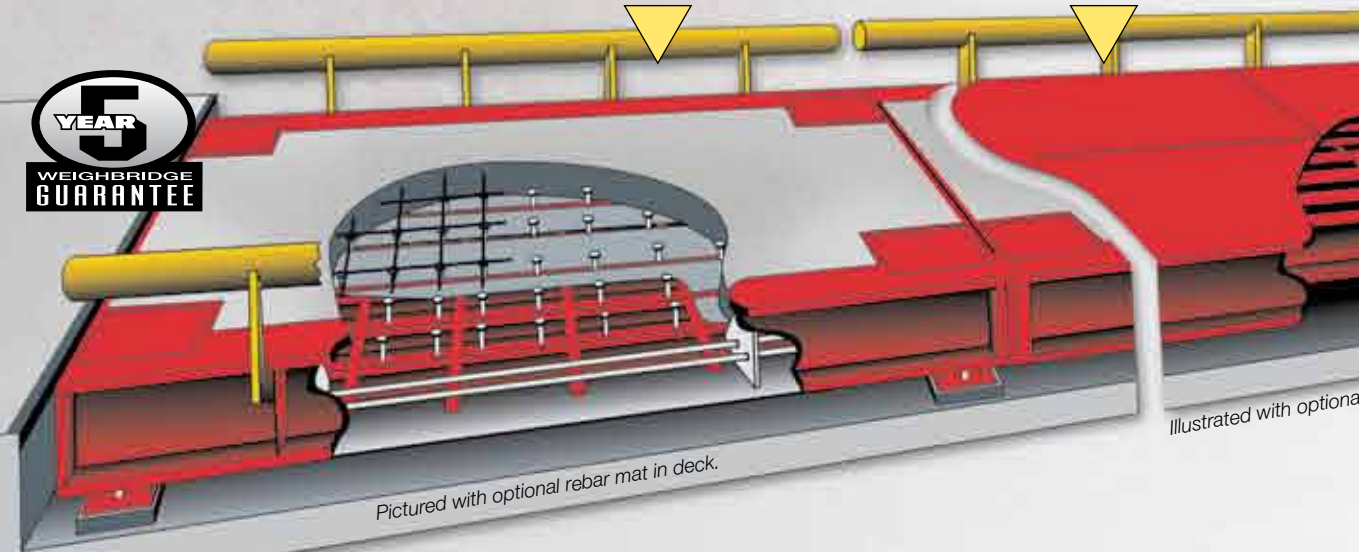


**RICE LAKE**  
**SURVIVOR®**  
**TOUGHEST TRUCK SCALES ON EARTH™**

# SURVIVOR<sup>®</sup> OTR SERIES

## Any way you look at it, the best scale in its class.

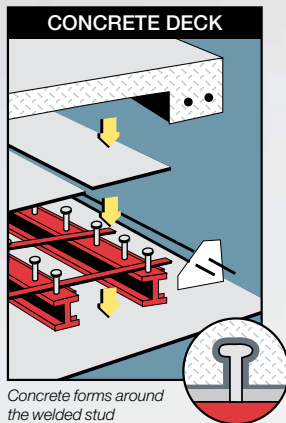
AVAILABLE IN CONCRETE AND STEEL DECK MODELS



Illustrated with optional

Pictured with optional rebar mat in deck.

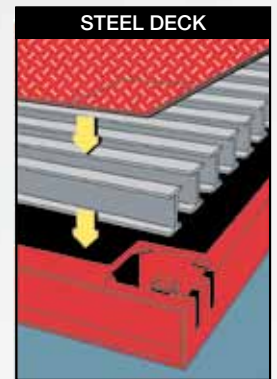
On each OTR module, the full 6" thick reinforced concrete deck encases hundreds of 3/4" shear studs welded to the supporting 6" I-beams, creating a monolithic 12" thick rigid weighbridge. When combined with the continuous 3/16" bottom deck plate, the modules maintain a minimal deflection ratio.



Concrete forms around the welded stud

### Designed and built to federal bridge standards

For applications where steel is preferred, or downtime is critical, choose the OTR steel deck. Each module is supported by wide flange main and support beams to provide exceptional rigidity and minimal deflection. The large number of support members means less stress on the top plate, and less chance of "dimpling" with repetitive loading.



### NTEP certified

All OTR concrete and steel deck models up to 16.5 feet wide are NTEP certified Legal-for-Trade. CC# 02-003A2



# TOUGHEST TRUCK SCALES ON EARTH

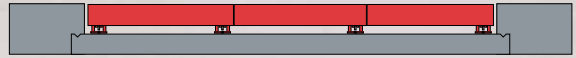
## Accuracy begins with the proper foundation

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.

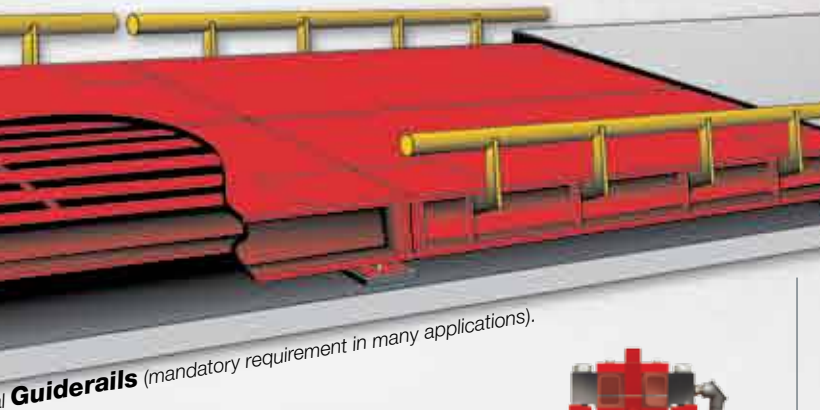
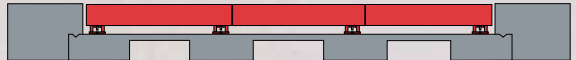
(OTR scales available for shallow pit applications.)



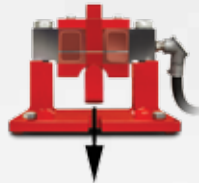
Floating Slab Foundation



Pier Foundation



Guiderails (mandatory requirement in many applications).



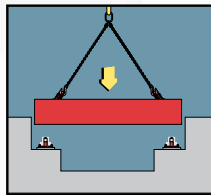
OTR mount assembly

## G-Force™ patented self-checking mounting system

Exclusive design sets an entirely new standard for performance, efficiency and durability. The G-Force mounting system eliminates excess movement and scale wear by using 100% of the gravity force from the loading action against itself—instantaneously returning the scale to dead center without check rods or bumper bolts. The result? Faster processing, consistent accuracy and less maintenance.

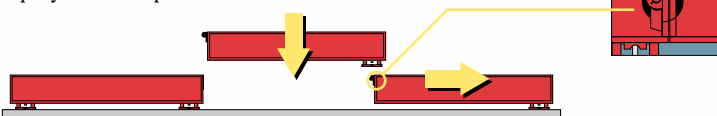
## Designed for drop-in fit to existing foundations

The OTR's slightly undersized dimensions simplify replacement of existing scales.



## Easily expands to grow with your business

Versatile and cost-effective, the OTR is designed to change with your business. Heavy-duty, self-seating hinge connectors offer easy installation of the preassembled modules and simplify future expansion.



## Built Tough, Start to Finish

- 1 Centrifugal abrasive blast cleaning removes mill scale and surface imperfections.
- 2 A thorough cleaning process prepares deck for maximum adhesion of coating applications.
- 3 Galvanized support pans are placed on concrete deck versions.
- 4 High-solids urethane primer is applied to the steel.
- 5 Specialized high-solids urethane paint completes finish.
- 6 Asphalt undercoating applied to all non-visible steel surfaces.

### SURVIVOR® OTR Series Specifications/Dimensions:

Length	Full Scale Capacity	Modules	Load Cells	CLC Rating
10'	60 tons	1	4	100,000 lb
20'	60 tons	1	4	100,000 lb
24'	60 tons	1	4	100,000 lb
30'	60 tons	1	4	100,000 lb
40'	100 tons	2	6	100,000 lb
47'	100 tons	2	6	100,000 lb
60'	100 tons	3	8	100,000 lb
70'	100 tons	3	8	100,000 lb
75'	100 tons	3	8	100,000 lb
80'	100 tons	4	10	100,000 lb
93'	100 tons	4	10	100,000 lb
100'	100 tons	5	12	100,000 lb
117'	100 tons	5	12	100,000 lb

All OTR series scales are available in 10', 11', 12', standard widths and up to 16.5' NTEP certified. All complete OTR scales listed are undersized for easy installation into existing pits. Example: 70 ft. scale – actual length is 69 ft 10.5 in.

## Five-Year Parts Warranty and Lightning Protection



To ensure worry-free operation, we've included a 5-year Parts Warranty that covers load cells, junction boxes and suspension systems. It also includes a lightning protection package.

\*OTR Series weighbridges are warranted against defects in materials and workmanship for 5 years from delivery. Check with federal, state and local authorities for vehicle scale guidelines and regulations.



## Add an *iQUBE*<sup>2</sup> to your application

The optional *iQUBE*<sup>2</sup> digital diagnostic junction box has the unique ability to digitally monitor and communicate load cell performance, and will compensate for a failing load cell until repairs can be made. *iQUBE*<sup>2</sup> provides unparalleled speed and communication and is far more resistant to electrostatic discharge and transient damage from lightning strikes than any traditional junction box.

- *iQUBE*<sup>2</sup> is a legal-for-trade indicator without a display. It can be interfaced to almost any serial host using open protocol.
- With *iQUBE*<sup>2</sup> each load cell operates independently, improving signal to noise ratio and making diagnostic functions available.
- The *iQUBE*<sup>2</sup> emulator function is based on a comparison to other functional load cells allowing the scale to remain functional until a repair can be made.
- The *iQUBE*<sup>2</sup>, when used with a diagnostic screen, displays and tracks cell performance, weight, dead load and current values for each load cell and sends email alerts. The system diagnostic checks A/D, excitation, communication and load cell bridges and assesses weighing performance with tunable diagnostics for return to zero, drift, noise and linearity.
- Each *iQUBE*<sup>2</sup> board has diagnostic LEDs for displaying load cell health, communication port activity, processor heartbeat, and digital I/O functionality. The boards can be run with a DC power source (7.5 – 12 VDC), or with an AC power supply that mounts in the enclosure.

03/03/2012 02:33PM Scale #1			
Diagnostics			
NAME	DEADLOAD	CURRENT	
A1-Load Cell 1	0.376	0.386	
A2-Load Cell 2	0.284	0.338	
A3-Load Cell 3	* ERROR *	0.286	0.507
A4-Load Cell 4	* ERROR *	0.262	0.594
System 1		2004.656	
4 weighments over 1000 grads		Cell Balance Error	
Previous	Millivolts	Done	Next MORE ⇨

*When paired with Rice Lake's 920i® digital indicator, diagnostics are taken a step further. The display of the 920i will prompt when a potential problem is detected and even email the findings to your service provider.*

# SURVIVOR<sup>®</sup> OTR SERIES

## Complete your scale with the highest quality accessories.

- 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. 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 multicopy 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. Automated Ticketing Kiosk** Rice Lake has developed the Automated Ticketing Suite kiosk system for truck identification, load assignment and weighing, and ticketing for concrete, aggregate and asphalt plant operations. With this system, plant managers can optimize the flow of trucks and materials and increase efficiencies throughout their operation.
- 6. Remote Displays** Featuring a super-bright LED display and a non-glare filtered lens, the SURVIVOR<sup>®</sup> LaserLight<sup>™</sup> remote display and M Series messaging remote display is clearly visible—even in direct sunlight. The unique IntelliBright<sup>™</sup> feature uses a photo sensor to read ambient light to automatically adjust the display's intensity between day and night settings to optimize power usage. Increase truck throughput with the new 4" LaserLight with stop-and-go lights. The 4" and 6" LaserLight and 8- and 12-character M Series models are available with visors.
- 7. Traffic Signals** Rice Lake traffic signals have been tested to more than 80 MPH wind conditions on a single-point attachment. Corrosion-resistant PVC coatings and stainless steel hardware make the unit fully resistant to weathering.
- 8. Guiderails (recommended option)** Heavy-duty rail system offers an attractive visible guide to help drivers stay centered on the scale. The rails are slightly offset to allow full use of the deck surface and minimize damage to truck wheels if accidental contact is made.



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



### **SURVIVOR<sup>®</sup> SR**

Extreme-duty, low profile concrete or steel deck siderail scales



### **SURVIVOR<sup>®</sup> PT**

Pit-type concrete or steel deck scales



### **SURVIVOR<sup>®</sup> ATV**

Heavy- and super-duty top access or siderail

## Custom Designs Available

We manufacture and stock a wide selection of scales in the most popular sizes and capacities. We also specialize in custom solutions including unique dimensions and profiles, existing pit and foundation matching, extreme weight capacities, dump through modules, and more.

Call us at **800-472-6703** to discuss your requirements with a member of our Heavy Capacity Sales Group and to locate an authorized distributor in your region.

Visit us at [www.ricelake.com/truckscales](http://www.ricelake.com/truckscales) for complete specifications and to see the entire Rice Lake Weighing Systems vehicle scale line.



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