

# SURVIVOR<sup>®</sup>

## OTR SERIES

TOP ACCESS LOW PROFILE  
CONCRETE & STEEL DECK  
TRUCK SCALES



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

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

To be the best by every measure<sup>®</sup>

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



## Add an **iQUBE²** to your application

The optional **iQUBE²** 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. **iQUBE²** provides unparalleled speed and communication and is far more resistant to electrostatic discharge and transient damage from lightning strikes than any traditional junction box.

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 *	0.507
A4-Load Cell 4	* ERROR *	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 e-mail the findings to your service provider.

- **iQUBE²** is a legal-for-trade indicator without a display. It can be interfaced to almost any serial host using open protocol.
- With **iQUBE²** each load cell operates independently, improving signal to noise ratio and making diagnostic functions available.
- The **iQUBE²** 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 **iQUBE²**, 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 assess weighing performance with tunable diagnostics for return to zero, drift, noise and linearity.
- Each **iQUBE²** 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.





◀ **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 above ground 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 12—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 5-year weighbridge guarantee.

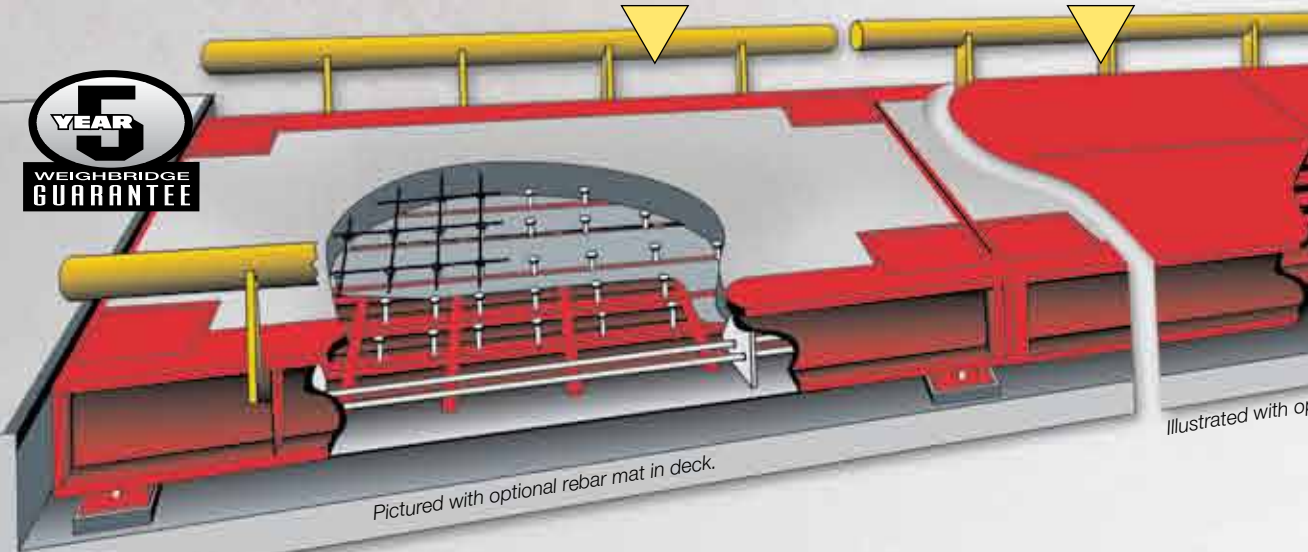


**RICE LAKE**  
**SURVIVOR®**  
**TOUGHEST TRUCK SCALES ON EARTH™**

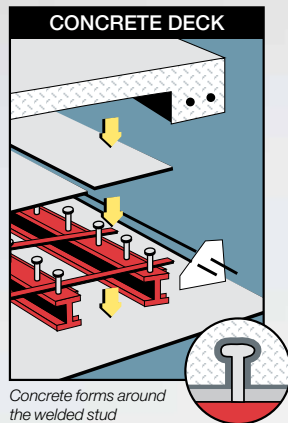
# SURVIVOR<sup>®</sup> OTR SERIES

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

AVAILABLE IN CONCRETE AND STEEL DECK MODELS

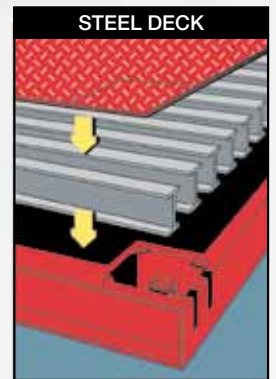


On each OTR module, the full 6" thick reinforced concrete deck encases hundreds of 3/4" shear studs welded to the supporting 6" I-beams, creating a monolithic 12" thick rigid weighbridge. When combined with the continuous 3/16" bottom deck plate, the modules maintain a minimal deflection ratio.



### 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

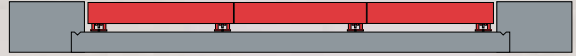
## Accuracy begins with the proper foundation

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.

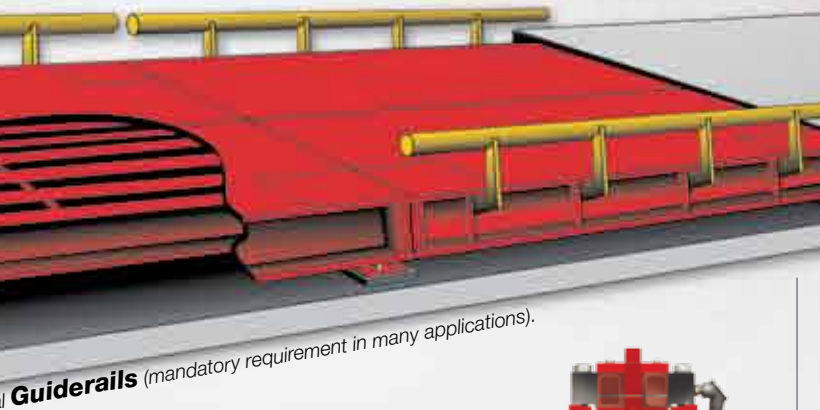
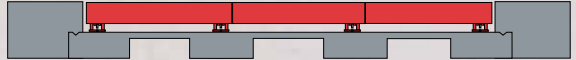
(OTR scales available for shallow pit applications.)



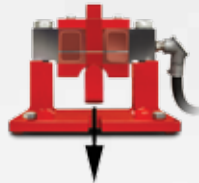
Floating Slab Foundation



Pier Foundation



**Guardrails** (mandatory requirement in many applications).



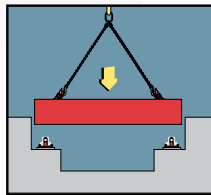
OTR mount assembly

## 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.

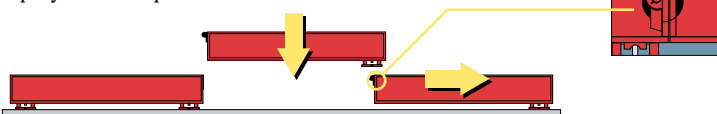
## Designed for drop-in fit to existing foundations

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



## Easily expands to grow with your business

Versatile and cost-effective, the OTR was designed to change with your business. Heavy-duty, self-seating hinge connectors offer easy installation of the pre-assembled 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 69 ft 10.5 in.

## 5-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, suspension systems and includes a lightning protection package.

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

# SURVIVOR® OTR SERIES

## Complete your scale with the highest quality accessories.

The toughest scales on Earth deserve the best...

- 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. They're 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 multi-copy forms.
- 4. OnTrak™ 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 new system, plant managers can optimize the flow of trucks and materials and increase efficiencies throughout their entire operation.
- 6. Remote Displays** Featuring a super-bright LED display and a non-glare filtered lens, the SURVIVOR® LaserLight™ remote display and M-Series messaging remote display is clearly visible—even in direct sunlight. The unique IntelliBright™ 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. Guiderrails (Recommended option)** Heavy-duty rail system offers an attractive visible guide to help drivers stay centered on the scale. The rails are slightly off-set 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® SR**

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



### **SURVIVOR® PT**

Pit-type concrete or steel deck scales



### **SURVIVOR® 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.

Your Rice Lake Weighing Systems distributor is:

**RICE LAKE**  
WEIGHING SYSTEMS  
To be the best by every measure®

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TEL: 715-234-9171 • FAX: 715-234-6967 • [www.ricelake.com](http://www.ricelake.com)

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Specifications subject to change without notice