

# TRUCK SCALES



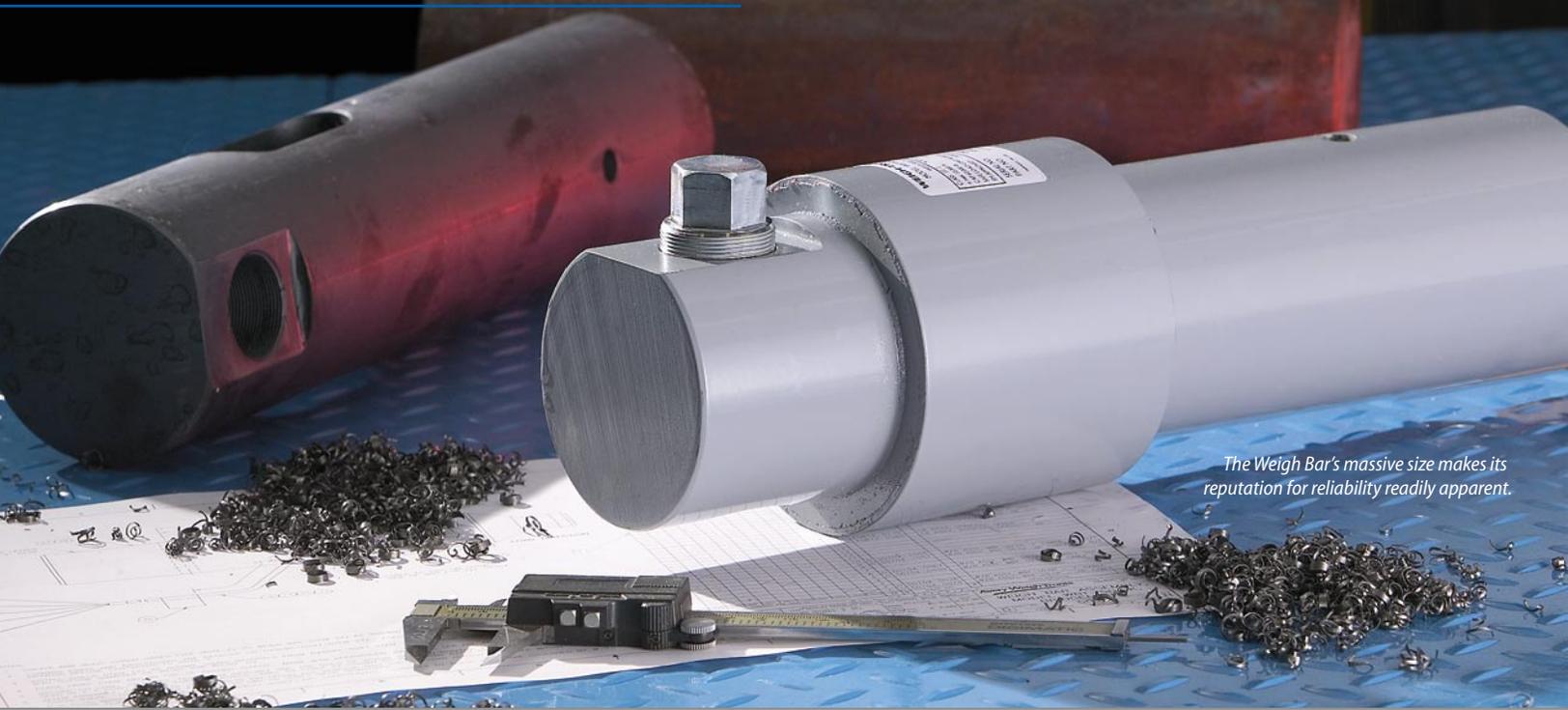
Legendary reliability and precision with the exclusive Weigh Bar® and rugged weighbridge design backed by an industry-leading warranty

*SteelBridge XT*  
*BridgeMont®*  
*Multi-Platform*  
*Portable*  
*Off-Road*  
*Comboweigh*

Avery Weigh-Tronix

Exclusive design features are what make  
Avery Weigh-Tronix truck scales #1 in the industry

# ENGINEERING



*The Weigh Bar's massive size makes its reputation for reliability readily apparent.*

## The Legendary Weigh Bar®

A patented and proven weight sensor



### Reliable

For over 25 years, the exclusive Avery Weigh-Tronix Weigh Bar has enjoyed a reputation for precision and reliability – something no other load cell can match. The Weigh Bar's long service life is a big reason why Avery Weigh-Tronix truck scales offer the lowest cost of ownership, with fewer service calls and costly load cell replacements.

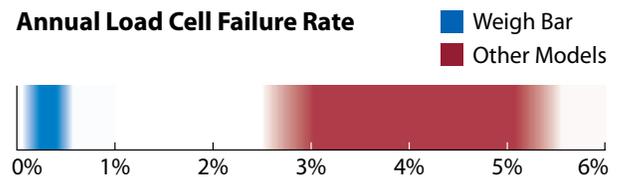
### Rugged

The Weigh Bar contains 3 to 10 times more steel content than shear beams or compression cells. Unlike other load cells, it easily absorbs impact to minimize peak forces and is virtually fatigue-proof. The Weigh Bar is proven to resist electrical surges and is protected by a 5-year warranty that includes coverage against lightning damage.

### Consistent

Each Weigh Bar is precision machined by Avery Weigh-Tronix from aircraft-quality, alloy steel for excellent repeatability and long-term durability. The entire process is controlled by strict quality standards that are certified by ISO.

### Annual Load Cell Failure Rate



### Accurate

The sensor's design automatically cancels the effects of side loading, end loading and twisting, resulting in quick, accurate readings. Only vertical forces are measured regardless of vibration, and shock loads on the scale. Weigh Bars ignore the effects of weighbridge expansion/contraction due to temperature change.

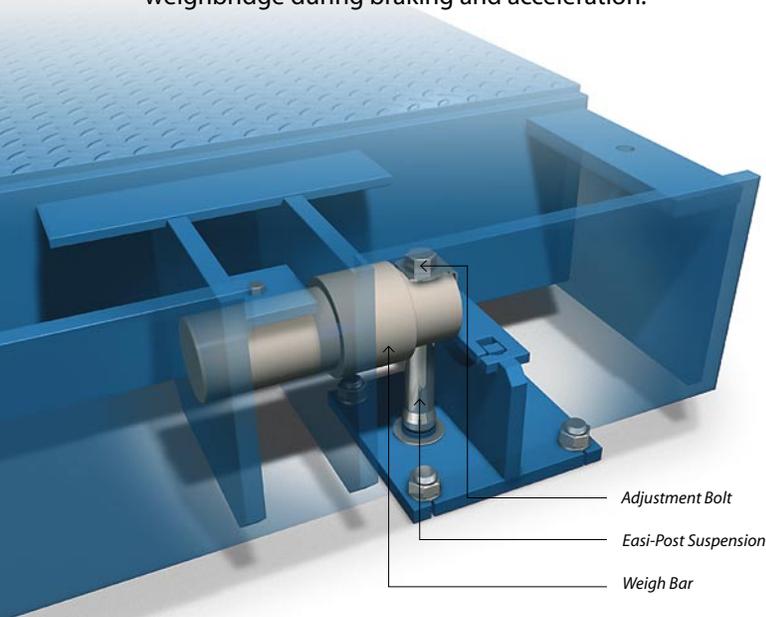
### Sealed

The Weigh Bar is well protected against harsh environments by an exclusive 5-layer, sealing process. It is approved by Factory Mutual as intrinsically safe for hazardous locations.

## Weighbridge Suspensions

Rugged, precise and easy to install

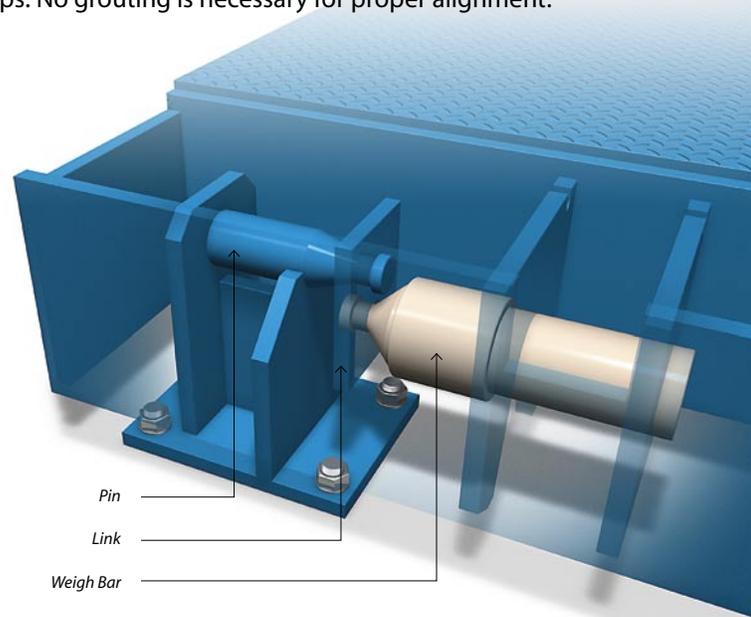
Easi-Post and Pin & Link suspension systems are proven designs that offer a high degree of performance, efficiency, and durability while absorbing the energy applied to the weighbridge during braking and acceleration.



**Checking** – Checking systems are internal and self-aligning. They allow for deck expansion/contraction and self-check against the weighbridge end box plates.

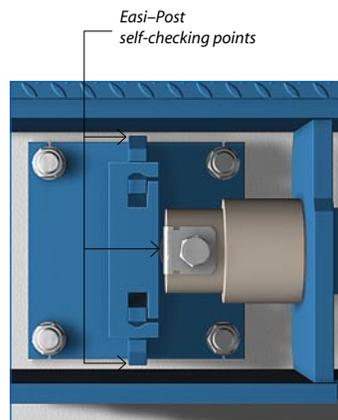
**Dampening** – Dampening features quickly stabilize rocking motion as trucks stop and go, for fast and stable weight readings.

**Installation** – Base plates are anchored directly to pier tops. No grouting is necessary for proper alignment.



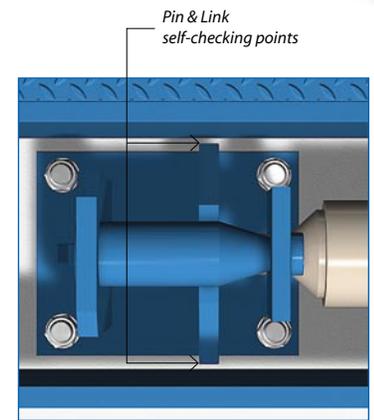
### Easi-Post™

An innovative, patent pending suspension system that greatly simplifies the job of leveling a scale with the foundation and offers long-lasting performance. Ideal for those “less than perfect” foundations. Each module may be raised or lowered by 1/2” with a simple turn of the adjustment bolt.



### Pin & Link™

The traditional Avery Weigh-Tronix suspension system with heavy-duty components for long-lasting performance. Installs quickly and minimizes weighbridge movement for consistent accuracy and low maintenance. Height adjustment is achieved by using shim plates.



## About Avery Weigh-Tronix

From its establishment in 1971, Avery Weigh-Tronix has been an active force in advancing the state of electronic scale design. Its products are recognized for durability that exceeds general industry standards and performance that reflects the latest advances in technology. Through customer satisfaction, Avery Weigh-Tronix has grown rapidly and is currently the second largest manufacturer of commercial and industrial scales in the world.



Avery Weigh-Tronix headquarters – Fairmont, MN

## Rugged Weighbridge Design

High-quality construction ensures long-lasting integrity

### Convenient, top-side maintenance

Removable section covers allow convenient top access for maintenance and service.

### Exceptional rust & corrosion protection

3-step coating process seals out the elements. Surfaces are shot-blasted and cleaned, primed with epoxy, and finished with a tough, enamel top coat.

### Fully assembled

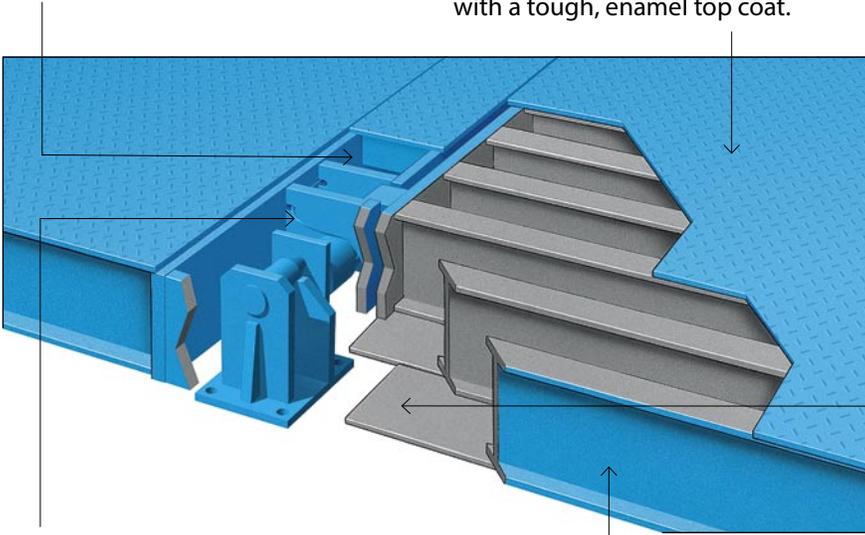
Quick, easy installation with no hidden labor or material costs.

### Steel, concrete or galvanized models

Choose the easy installation of a steel deck, or the enhanced durability of a concrete surface. Entirely galvanized units are available as well for maximum corrosion protection.

### Closed underside

Bottom plates are important stress-carrying members that increase strength and rigidity by joining the bottom I-beam flanges together. 100% welding ensures maximum strength and corrosion prevention.



### No exposed wiring

Cables are sheathed with a stainless steel jacket and routed through steel conduit for extra protection.

### High-strength steel construction

Only the highest quality structural steel is used. Automated continuous welding provides extra strength – no lower strength spot or intermittent welds.

### Professional foundation plans

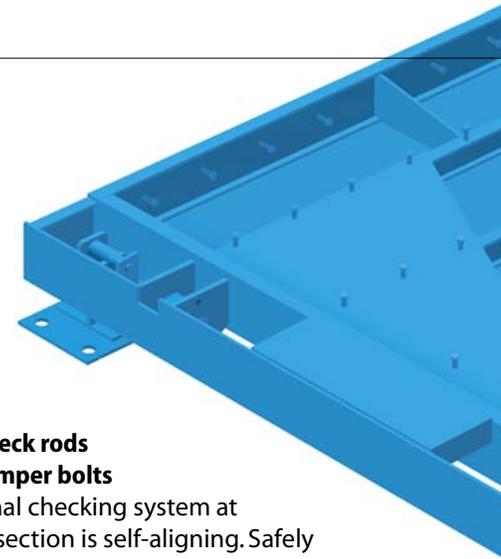
Foundations are professionally designed by Avery Weigh-Tronix engineers to meet specific site requirements. Nothing is left to chance, for an efficient, reliable, and long-lasting scale installation. Choose from slab, pier, or pit construction.

### Finite Element Analysis

Advanced engineering ensures all weighbridge components meet design specifications for long-term structural integrity.

### No check rods or bumper bolts

Internal checking system at each section is self-aligning. Safely prevents excessive scale movement during acceleration and braking.



## Integrated Communications

Impressive communication abilities connect all the components of a powerful truck scale system

Create a truck scale system to fit specific needs by choosing from a variety of integrated components.

SensorComm, Traxle, Indicators and Software give you the ability to *communicate* in the language of your business; *convey* operational status

in a meaningful form; *diagnose* and isolate potential problems.

Avery Weigh-Tronix components utilize industry-standard protocols such as Ethernet, which merge with existing computer networks for precise data management.

## SensorComm™

SensorComm is a digital Junction Box that converts analog load cell inputs into digital outputs. It features remote diagnostics and optical or serial data transmission.

SensorComm is the basis for advanced truck scale connectivity.



## Concrete reinforcement

Factory welded studs bond the concrete to the steel structure, eliminating the need for costly and time-consuming rebar.

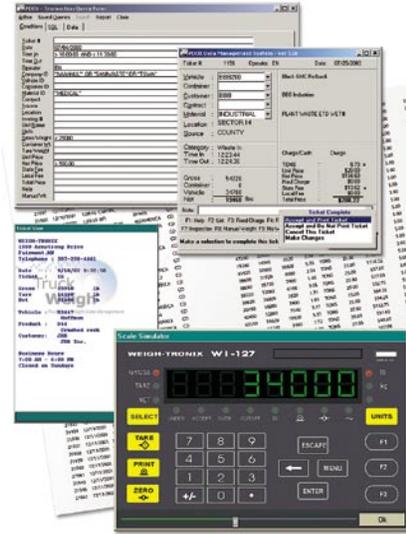
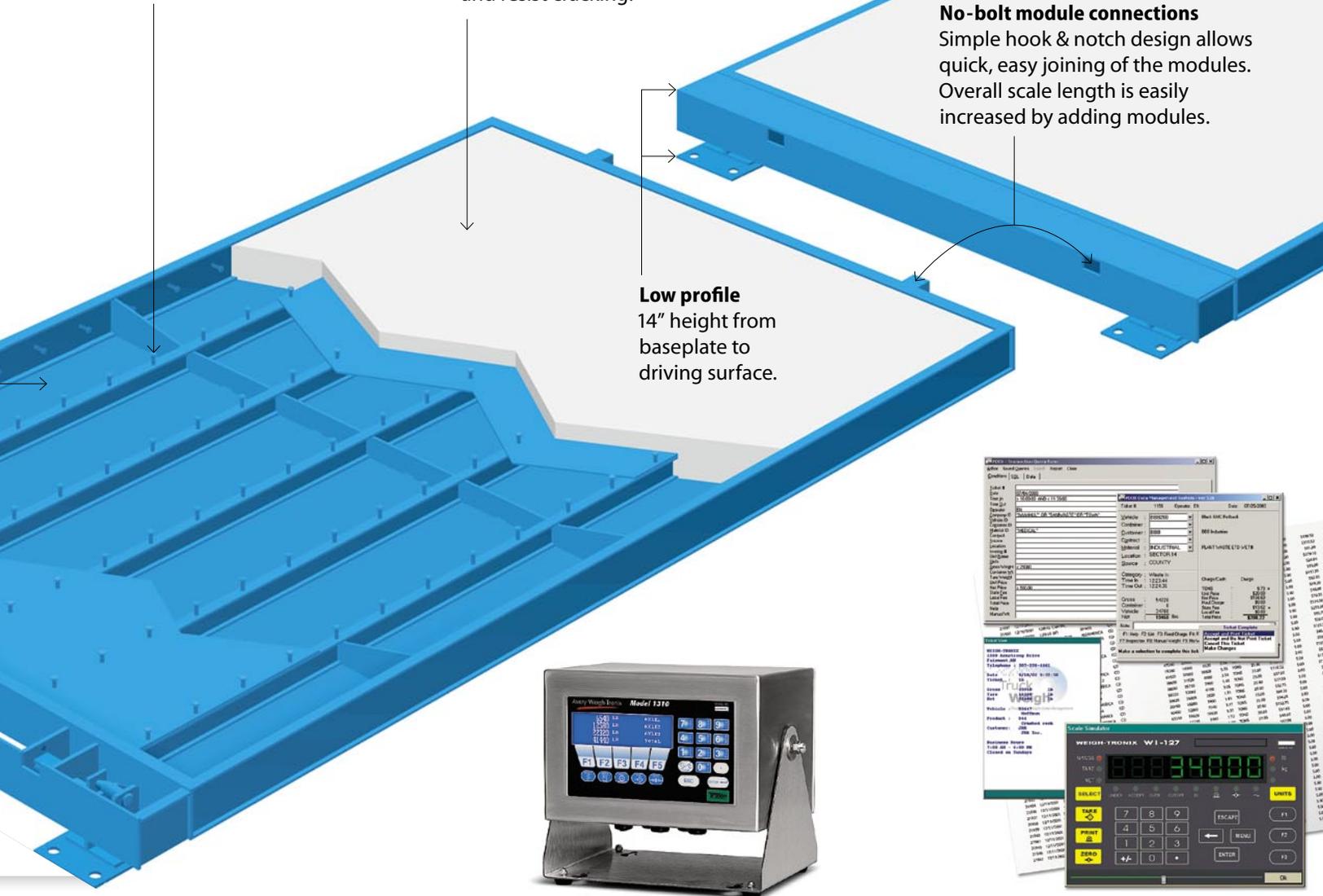
## Composite design

Only the top half (5") of the deck is poured, allowing the concrete to stay in compression. Tension forces are handled by the high-strength steel structure below the concrete. Fiber-mesh concrete is specified to increase strength and resist cracking.

## No-bolt module connections

Simple hook & notch design allows quick, easy joining of the modules. Overall scale length is easily increased by adding modules.

**Low profile**  
14" height from baseplate to driving surface.



## Traxle™

Traxle is a patented system that provides both total truck and axle weights on a standard truck scale. This is accomplished by obtaining weighments at two scale positions (shown below).

## Indicators

Avery Weigh-Tronix offers a range of easy-to-use digital indicators that meet the exact needs of any truck scale application, from basic weighing to advanced transactions and data handling.

## PC Software

Two software packages, Truck Weigh and PDOX provide powerful scale management and data capture capabilities.

Second Weigh Point  
First Weigh Point



Steel Bridge XT truck scale installation at Ambassador Bridge Customs – Detroit, Mich.

The largest selection in the industry means a perfect fit for any application

# SCALE MODELS

## Selection Guide

	SteelBridge XT Extreme Duty	BridgeMont Heavy Duty	BridgeMont XL Heavy Duty	BridgeMont Standard Duty
Standard Profile	14"	14"	14"	14"
Gross Capacity	50,000 to 270,000 lb	40,000 to 270,000 lb	40,000 to 270,000 lb	35,000 to 270,000 lb
CLC/DTA	45 tons	40 tons	40 tons	35 tons
NTEP Approved	✓	✓	✓	✓
Standard Module Lengths	10', 12', 20', 23.5'	10', 12', 20', 23.5'	25'	10', 12', 20', 23.5'
Standard Total Scale Lengths	up to 150'	up to 150'	up to 150'	up to 120'
Custom Lengths	☎	☎	☎	☎
Standard Module Widths	10', 11', 12'	10', 11', 12'	10', 11', 12'	10', 11'
Custom Widths	up to 15'	up to 15'	up to 15'	☎
Weight Sensor	Weigh Bar	Weigh Bar	Weigh Bar	Weigh Bar
Weight Sensor Warranty	5-years	5-years	5-years	5-years
Weighbridge Structure Warranty	15 years	10 years	10 years	5 years
Suspension System	Pin & Link	Easi-Post or Pin & Link	Easi-Post or Pin & Link	Easi-Post or Pin & Link
Deck Surface	Steel or Concrete	Steel or Concrete	Steel or Concrete	Steel
Finish	Paint or Galvanize	Paint or Galvanize	Paint or Galvanize	Paint or Galvanize
Stainless Steel Sheathed Cable	✓	✓	✓	○
Stainless Steel Analog J-Box	○	✓	✓	✓
SensorComm Digital J-Box	✓	○	○	○
Guide Rails	○	○	○	○
Manholes	○	○	○	○
Dump Modules	○	○	○	○
Pre-Fab Foundation	○	○	○	○

LEGEND: ✓ STANDARD ○ OPTIONAL ☎ CONSULT FACTORY — NOT AVAILABLE

*Take the time to compare. You'll find Avery Weigh-Tronix offers the best selection, features, options and value in the industry – not to mention knowledgeable distributor support and an exceptional warranty.*

## Environmental Protection

Environmental seals, stainless steel sheathed cable, surge protection, heavy-duty coatings and rugged construction help Avery Weigh-Tronix scales defend against Mother Nature's worst.



## Outstanding warranty programs make the cost of ownership even lower

No "lifetime" warranties that really aren't lifetime. No pro-rating that erodes coverage, year after year. No hidden exclusions about lightning. These warranties are the real deal.

**5 YEARS** – Internal scale components on BridgeMont & SteelBridge XT models. BridgeMont Standard Duty weighbridge structure.

**10 YEARS** – BridgeMont Heavy Duty weighbridge structure, BridgePort Portable.

**15 YEARS** – SteelBridge XT weighbridge structure.

SteelBridge XT Portable	BridgeMont Heavy Duty Portable	BridgePort BPV Portable	Off-Road	Combo-Weigh
19"	19"	19"	☒	☒
50,000 to 270,000 lb	40,000 to 270,000 lb	50,000 to 270,000 lb	Up to 270,000 lb	Vehicle: 270,000 lb Rail: 400,000 lb
45 tons	40 tons	40 tons	80 tons	Vehicle: 40 tons Rail: 180 ton section
✓	✓	✓	✓	✓
20', 23.5', 25' up to 100' ☒	20', 23.5', 25' up to 100' ☒	20', 25', 30, 35' up to 105' ☒	— ☒ ☒	— up to 100' ☒
10', 11' ☒	10', 11' ☒	10', 11', 12' ☒	11'6" to 16' ☒	10', 11' ☒
Weigh Bar 5-years	Weigh Bar 5-years	Weigh Bar 5-years	Load Cell Manuf. Warranty	Load Cell Manuf. Warranty
15 years	10 years	10 years	5 years	10 years
Pin & Link	Easi-Post or Pin & Link	Pin & Link	Pin & Link	Rocker Assembly
Steel	Steel	Steel	Steel or Concrete	Steel or Concrete
Paint or Galvanize	Paint or Galvanize	Paint or Galvanize	Paint or Galvanize	Paint or Galvanize
✓	✓	○	○	○
✓	✓	✓	✓	✓
○	○	○	○	○
○	○	○	○	○
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## SteelBridge XT

Long-lasting performance for extreme traffic and axle loads

SteelBridge XT is a true heavyweight in the industry. It is a premium scale engineered to thrive on heavy, frequent, day-to-day use. The XT is often used in aggregate, logging, and recycling operations as well as for high traffic, over-the-road weighing.

The extra rugged design and construction means structural integrity will be maintained, even after many years of heavy use. With a 15-year weighbridge warranty, you can be sure SteelBridge XT will still be in operation long after the competitor's scale has worn out. SteelBridge XT is virtually unstoppable!

- **Fully Assembled** – Scales arrive on-site fully assembled and are easily installed in a pit, or above ground on a slab or piers. Available with a steel or concrete deck surface.
- **Low Profile** – SteelBridge XT features a low 14" profile that saves real estate and construction costs by using a shorter approach area. Higher profile for additional clearance is easily accomplished with affordable base plate options.
- **Standard to Custom** – A wide range of standard lengths and widths or built to customer specifications. Also available as a portable unit.



## Multi-Platform Scale

One-stop, legal-for-trade axle weighing

Choose any combination of SteelBridge XT or BridgeMont scale sections to create a legal-for-trade, one stop axle weighing system.

- **Fast axle weighing** – Individual scale sections trim minutes off traditional axle weighing methods, substantially increasing productivity.



## BridgeMont®

Long-lasting performance for heavy to moderate traffic and axle loads

The versatile BridgeMont series truck scales are designed for the majority of users – those that require a dependable, long-lasting scale, but don't need the extreme traffic or axle load capacity of a SteelBridge XT. The BridgeMont series offers an unbeatable combination of structural integrity and cost effectiveness. With many sizes and capacities to choose from, BridgeMont fits virtually any application.

- **Fully Assembled** – Scales arrive on-site fully assembled and are easily installed in a pit, or above ground on a slab or piers. Available with a steel or concrete deck surface.
- **Low Profile** – Features a low 14" profile that saves real estate and construction costs by using a shorter approach area. Higher profile for additional clearance is easily accomplished with affordable base plate options.
- **Standard to Custom** – A wide range of standard lengths and widths or custom built to customer specifications.



### BridgeMont Heavy Duty

The BridgeMont Heavy Duty is a rugged scale that can easily handle heavy traffic and axle loads beyond legal highway limits. It has quickly become one of North America's favorite truck scales over the last 5 years and is preferred by several major corporations in a variety of industries. Available as a portable unit. BridgeMont Heavy Duty also comes in special lengths of 15' and 17.5' with an extra low profile down to 11" to serve as a replacement for other brands of scales.

### BridgeMont XL

This **extra-long** version of the BridgeMont Heavy Duty is a 75' scale that can handle any legal-length truck in 48 states. As trucks get longer, a standard 70' truck scale may not be the best choice. The 75' BridgeMont XL consists of only 3 modules which significantly reduces initial investment and overall ownership costs. Because of their limited module lengths, other manufacturers only offer more costly 80' scales.

### BridgeMont Standard Duty

The BridgeMont Standard Duty provides an economical solution for those applications with moderate traffic and axle loads up to highway limits. It utilizes the same sandwich steel construction and Weigh Bars as the heavier models for outstanding strength and reliability.

## Off-Road

Built for extreme trucks carrying extreme loads

Avery Weigh-Tronix Off-Road truck scales are designed to meet the tough requirements of industries such as mining and excavating.

Widths range from 11'6" to a full 16' with bolt-on outriggers. Lengths up to 100' are available. Custom designs are available. Specify the vehicles to be weighed and let Avery Weigh-Tronix take care of the rest.

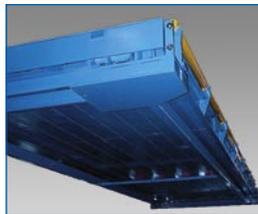


## Portable Truck Scales

Quick set-up for weighing almost anywhere

Avery Weigh-Tronix portable truck scales go anywhere there is an immediate need for on-site vehicle weighing – timber operations, road construction, asphalt facilities, quarries, or construction and clean-up sites. They quickly fill temporary needs when other scales fail or there are delays with foundation construction.

The self-contained modular sections eliminate costly site preparation and allow for fast setup. Supported by a high-strength frame, our portable scales can be installed on any stable surface in just 2 to 4 hours. They can be readily converted for installation as permanent, low-profile scales. With 3 models to choose from, there's a model available to fit almost any application. Also available as rental units.



ABOVE: Portable truck scale installation with temporary gravel ramps.

LEFT: Detail of sub-frame.

## BridgePort BPV

A rugged deck design and sub-frame of high-strength, tubular steel increases durability for frequent moves. Arrives completely pre-wired with quick-connectors between modules. Individual module lengths of 20', 25', 30', and 35' can be combined to create just the right scale.

## BridgeMont Heavy Duty

Same scale used for permanent installations with the addition a high-strength, tubular steel frame and a pair of "C" channel bulkheads.

## SteelBridge XT

Same scale used for permanent installations with the addition a high-strength, tubular steel frame and a pair of "C" channel bulkheads.

## Comboweigh

Weigh trucks & railcars with one scale

Comboweigh is a legal for trade pit-type scale which does double duty. It weighs both trucks and railcars on the same surface. The structure of the Comboweigh Truck / Track Scale allows users to fit it exactly to location and to specific processes.

- **Dual function** – One scale, one installation, weighs both rail cars and trucks.
- **Factory assembled modules** – Scale package includes the weighbridge, load cells, load cell mountings and grout plates, anti-creep angles and summing boxes with surge protection.
- **Heavy duty construction** – Heavy, wide flange steel beams assure structural integrity.
- **Rigid checking system** – Critical for track scale systems. Stabilizes the scale quickly for fast weighments.
- **Versatile** – Optional equipment and designs let you order the scale configuration that fits new or existing loading and unloading systems. Dump grating is available.





Create a complete truck scale system with a wide range of accessories

# OPTIONS

## 1 GUIDE RAILS AND POSTS:

Extreme-duty guiderails are welded in place to provide a strong, attractive barrier against accidental drive-offs. Tubing is gentle on truck wheels and is offset to allow full use of deck.

## 2 STOP & GO LIGHTS:

Help direct vehicle movement and provide added safety on the premises. Rugged design withstands all types of weather and environments.

## 3 INDICATORS:

A range of digital indicators meet the exact needs of any truck scale application, from basic weighing to advanced transactions and data handling. Manufactured to rigid quality standards to provide the fastest, most accurate weight processing available.

## 4 4100 & 6100 REMOTE DISPLAY:

4" or 6" tall digits along with internal backlight and sun shade allow easy viewing from long distances. The environmentally sealed case mounts at any angle.

## 5 PRINTERS:

Several printers are available, including the dot-matrix TM-U590, which prints a wide range of slips and documents. Prints 88 columns wide on up to four copies.



3



4



5

- 6 UNATTENDED SYSTEMS:**  
Allows 24/7 scale availability. Can be customized with several hardware options such as loop detectors, ID readers, video surveillance, traffic lights, and wireless communication.
- 7 PRE-FAB FOUNDATIONS:**  
Removes most of the complexities of truck scale installation. The scale and foundation can arrive on the same truck shipment to be set-up in just a few hours. If the scale needs to be relocated, the foundation can be reused.



- 8 GRAIN DUMP MODULE:**  
An easy-flow grate allows trucks to weigh and dump over a BridgeMont truck scale. Available in 10' or 11' widths.
- 9 MANHOLE:**  
Provides easy access in pit installations. Reinforced 2' x 2' manhole includes a heavy-duty cover to maintain weighbridge integrity.
- 10 GALVANIZING:**  
Steel deck scales can be completely hot-dip zinc galvanized, for enhanced corrosion protection.



## PC SOFTWARE:

- **Truck Weigh** – User-friendly Windows application featuring: a comprehensive vehicle, product and customer database, transaction reporting, data export, training mode with indicator simulator and data security features.
- **PDOX** – A flexible, comprehensive Windows application to quickly process transactions, capture data and report. Powerful yet easy to use. Available for single user, networked or unattended operations.



## Localized sales and service support

Your Avery Weigh-Tronix distributor has extensive application experience and can help determine which truck scale model is best suited for your needs. Avery Weigh-Tronix distributors are valuable resources that are readily available to you. They are complete support centers, providing needs assessment, technical information, product sales and service.

**Standard Scale & Supply Company**  
**25421 Glendale Avenue**  
**Redford, MI 48239**  
**313-255-6700**  
**www.standardscale.com**

**Avery Weigh-Tronix**



Avery Weigh-Tronix reserves the right of technical modification.  
Specifications are subject to change in accordance with any such modification.