



# BridgeMont

## Heavy-Duty Steel Deck Truck Scale

*Technical Specification*

### General

- The BridgeMont Heavy Duty Steel Deck Truck Scale is an outstanding design that incorporates the most advanced engineering and production technology. It is a scale for the majority of users, the people who require a scale they can depend on, day in and day out. With 100% welding throughout the structure, the BMS-HD offers best-in-class strength and durability.

### Features & Benefits

| FEATURE                             | BENEFITS  |
|-------------------------------------|---|
| Gross Capacity                      | With a capacity of 40 to 135 tons this scale can handle a wide range of trucks and configurations.  |
| Platform Lengths                    | Platform lengths from 10' to 150'; assuring each customer the right size for the application.   |
| Platform Widths                     | Standard widths of 10', 11', 12' and all the way up to 15' to fit a range of applications and existing foundations.   |
| Concentrated Load Capacity (CLC)    | At 45 tons, the BridgeMont Heavy Duty Steel Deck Truck Scale is comparable to other product costing thousands more.   |
| Dual Tandem Axle Rating (DTA)       | At 90,000 lb, the BridgeMont Heavy Duty Steel Deck Truck Scale provides the highest Dual Tandem Axle Rating in its class.   |
| "r" Factor                          | With an "r" Factor of 2.65, the BridgeMont is twice the legal highway load limit of 34,000 lb.  |
| Module Size                         | At 10', 12', 20', 23.5', and 25'; the BridgeMont uses fewer load sensors, only 8 on a typical 70' scale, compared to 10 or more on competitive models.  |
| Weighbridge Thickness               | At only 10.125" thick, the BridgeMont Heavy Duty Steel Deck Truck Scale provides a lower profile, compact, and structurally superior design.  |
| Profile                             | At 14", the compact, efficient design of the BridgeMont, minimizes approach and exit requirements, and yet provides the user total confidence in integrity of the weigh bridge.   |
| Full Electronic Design              | Avery Weigh-Tronix has been an unsurpassed leader in utilizing state of the art technology, in virtually every aspect of the truck scales.  |
| Factory Assembled                   | Minimizes installation time and costs. Insures consistent product quality.  |
| Weighbridge Design                  | An outstanding weighbridge design, that includes a sandwich steel deck design that reduces the weight of the deck yet increases the strength of the scale. The second benefit of the sandwich design is it seals the deck structure from the elements which can reduce the life of the scale. The sandwich steel deck design of the BridgeMont Steel Deck Truck Scale increases the life and strength of the scale which comparable truck scales cannot compete with. |
| Corrosion Protection                | All steel surfaces are sandblasted to SSPC-6 industry standards. A high quality industrial grade urethane primer is applied, followed by a final coat of an acrylic polyurethane. Galvanizing is available.   |
| Module Installation                 | The absence of grout plates and the drilled in place anchor bolts mean simple, low cost installation.   |
| Weigh Bars®                         | Capacity of 75,000 lb for each sensor, with 200% overload safety factor.  |
| Weigh Bar Performance               | Impervious to end, side, and torque loading conditions that can destroy conventional load cells.  |
| Weigh Bar Design                    | Produced from high quality aircraft alloy steel bar stock, that has been heat treated, quenched, and tempered, to resist corrosion. Better repeatability and less hysteresis than stainless steel.  |
| Weigh Bar Reliability               | Failure rate of only 0.31% compared with a national average of 3 to 5% on conventional load cells.  |
| Weigh Bar Protection                | Extremely resistant to surge voltage or lightning related problems. Strain gauges are scientifically sealed against moisture or corrosive elements.   |
| Weigh Bar Cabling                   | Stainless steel jacketed cables in factory installed conduit runs.  |
| Easi-Post Self-Checking System      | Rugged Easi-Post™ suspension with self-checking design absorbs shocks and vibration from sudden starting and stopping of vehicles on scale. All components are made with hardened, stainless steel material for outstanding strength, durability, and corrosion protection. No check rods or bumper plates required.  |
| NEMA 4 Stainless Steel Junction Box | Compact, all stainless steel junction and summation boxes, with connector less cables for elimination of moisture or condensation related problems. Includes Gore breather vent to equalize pressure inside and outside the box.  |



# BridgeMont – Heavy-Duty Steel Deck Truck Scale



## E1310 Indicator

The E1310 Indicator with truck scale In/Out software application simplifies vehicle weighing. Track up to 250 different open transactions and store up to 1,000 completed transactions. You can also store up to 500 tare weights.

## Guide Rails And Posts

Extreme-duty guide rails are bolted 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.



## Manhole

Provides easy access in pit installations. Reinforced 2' x 2' manhole includes a heavy duty cover to maintain weighbridge integrity.



## 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.

## Approvals –

NTEP, Cert. Of Conf. #97-074  
Approved up to 14' width  
Approved for livestock weighing

## Warranty –

5 years - Weigh Bars  
10 years - Weighbridge

## OPTIONS & ACCESSORIES

Unattended Control Systems  
Remote Displays  
Grain Dump Modules  
Guide Rails  
Printers  
Galvanized Finish  
Guard Posts  
Pre-Fab Foundations  
MI-Payload, Measurement Intelligence Software  
SensorComm™ Digital Junction Box System  
Manhole Rings and Covers  
Hazardous Area Systems  
Indicators  
Multi-Platform Systems for Axle Weighing

| NOMINAL PLATFORM LENGTH (feet) | MODULES | WEIGH BARS | GROSS CAPACITY (tons) |
|--------------------------------|---------|------------|-----------------------|
| 10                             | 1       | 4          | 45                    |
| 12                             | 1       | 4          | 45                    |
| 20                             | 1       | 4          | 45                    |
| 24                             | 1       | 4          | 45                    |
| 30                             | 2       | 6          | 90                    |
| 35                             | 2       | 6          | 90                    |
| 40                             | 2       | 6          | 90                    |
| 47                             | 2       | 6          | 90                    |
| 60                             | 3       | 8          | 135                   |
| 70                             | 3       | 8          | 135                   |
| 80                             | 4       | 10         | 135                   |
| 93                             | 4       | 10         | 135                   |
| 100                            | 4 or 5  | 12         | 135                   |
| 116                            | 5       | 12         | 135                   |

All platform lengths are available in a choice of widths:  
**9'10.5" 11' 12' 13' 14'**

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