



# BRIDGEMONT

Low-Pro 8  
Truck Scale  
(BMS-LP8)

*Technical Specification*

## DESCRIPTION

The BridgeMont Low-Pro 8 (BMS-LP8) is an outstanding truck scale design that incorporates advanced engineering and production technology to produce a high quality truck weighing system. The high-strength characteristics and extra-low elevation profile of the BridgeMont Low-Pro 8 makes it an ideal replacement unit for other brands of worn out scales on existing foundations. Each scale is fully factory assembled, pre-calibrated, and performance tested to exacting NIST, NTEP, and ISO specifications, prior to shipment.

## SPECIFICATIONS

FEATURES	BENEFITS
<b>Gross Capacity</b>	With a capacity of 45 to 135 tons this scale can handle a wide range of trucks and configurations.
<b>Platform Lengths</b>	Typical platform lengths are 15' and 17.5' nominal. Combine several platforms to reach up to 120'; assuring each customer the right size for the application.
<b>Platform Widths</b>	Standard widths of 10' and 11' to fit a wide range of existing foundations.
<b>Concentrated Load Capacity (CLC)</b>	At 45 tons, the BMS-LP8 Truck Scale is comparable to other product costing thousands more.
<b>"r" Factor</b>	With an "r" Factor of 2.65, the BMS-LP8 can handle more than 2.5 times the legal highway axle load limit of 34,000 lb.
<b>Weighbridge Thickness</b>	At only 8.375" and using thirteen heavy-duty 8" wide flange beams, the BMS-LP8 Truck Scale provides a lower profile, compact, and structurally superior design.
<b>Elevation Profile</b>	At 11.25", the compact, efficient design of the BMS-LP8 minimizes approach and exit requirements, yet provides the user total confidence in integrity of the weighbridge.
<b>Full Electronic Design</b>	Avery Weigh-Tronix has been an unsurpassed leader in utilizing state of the art technology, in virtually every aspect of their truck scale product range.
<b>Factory Assembled</b>	Minimizes installation time and costs. Insures consistent product quality.
<b>Weighbridge Design</b>	An outstanding weighbridge design that includes a sandwich steel deck design that greatly increases the strength of the scale. The 8" beams are continuously welded to 1/4" checkered deck plate and 3/16" bottom plate.
<b>Corrosion Protection</b>	All steel surfaces are commercial blast cleaned to SSPC 6 industry standards. A high performance, high solids, two component urethane primer is applied, followed by a final coat of high quality, heavy-duty polyurethane.
<b>Module Installation</b>	The absence of grout plates and the drilled in place anchor bolts mean simple, low cost installation.
<b>Weigh Bars®</b>	Capacity of 75,000 lb for each sensor, with 200% overload safety factor.
<b>Weigh Bar Performance</b>	Impervious to end, side, and torque loading conditions, that can destroy conventional load cells.
<b>Weigh Bar Design</b>	Produced from high quality aircraft alloy steel bar stock that has been heat treated, quenched, and tempered. Better repeatability and less hysteresis than stainless steel.
<b>Weigh Bar Reliability</b>	Failure rate of only 0.31% compared with a national average of 3 to 5% on conventional load cells.
<b>Weigh Bar Protection</b>	Extremely resistant to surge voltage or lightning related problems. Strain gauges are scientifically sealed against moisture or corrosive elements.
<b>Weigh Bar Cabling</b>	Stainless steel jacketed cables in factory installed conduit runs.
<b>Easi-Post Self-Checking</b>	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.
<b>NEMA 4X Stainless Steel Junction Box</b>	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.



## ZM305 INDICATOR

The ZM305 Series 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. Other instruments are available with a wide range of features and functionality.

### Approvals –

NTEP, #97-074

### Warranty –

5 years - Weigh Bars

10 years – Weighbridge structure

## OPTIONS & ACCESSORIES

Guide Rails

Manhole Rings and Covers

Multi-Platform Systems for Axle Weighing

Guard Posts

SensorComm™ Digital Junction Box System

Printers

Indicators

Remote Displays

Unattended Control Systems

MI-Payload, Measurement Intelligence Software

Hazardous Area Systems



## 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. Yellow paint is standard feature.



## 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.



NOMINAL PLATFORM LENGTH (feet)	MODULES	WEIGH BARS	GROSS CAPACITY (tons)
15	1	4	90
17	1	4	90
30	2	6	180
35	2	6	180
60	4	10	270
70	4	10	270
80	5	12	270

All platform lengths are available in a choice of widths:  
**9' - 10.5' , 11'**

# Avery Weigh-Tronix

[www.averyweigh-tronix.com](http://www.averyweigh-tronix.com)

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