BRIDGEMONT

Heavy Duty Steel Deck Truck Scale
(BMS-HD)

Technical Specification

DESCRIPTION

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, who require a scale they can depend on, day in and day out. With 100% welding throughout the structure, the legendary Weigh Bar® weight sensors, and stainless steel suspension components, the BMS-HD offers best-in-class strength and durability.

SPECIFICATIONS

FEATURES	BENEFITS
Gross Capacity	With a capacity of up 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 BMS-HD Truck Scale is comparable to other product costing thousands more.
"r" Factor	With an "r" Factor of 2.65, the BMS-HD can handle more than 2.5 times the legal highway load limit of 34,000 lb.
Module Size	At 10', 12', 20', 23.5, and 25"; the BMS-HD uses fewer load sensors, only 8 on a typical 70' scale, compared to 10 or more on competitive models.
Weighbridge Thickness	At only 10.375" thick, BMS-HD Truck Scale provides a lower profile, compact, and structurally superior design.
Elevation Profile	At 14", the compact, efficient design of the BMS-HD minimizes approach and exit requirements, yet provides the user total confidence in integrity of the weighbridge. Additional under clearance is easily achieved with convenient base plate risers.
Full Electronic Design	Avery Weigh-Tronix has consistently been a leader in utilizing state of the art technology in virtually every aspect of their truck scale product range.
Factory Assembled	Minimizes installation time and costs. Insures consistent product quality.
Weighbridge Design	An outstanding weighbridge design that includes a sandwich steel deck with 100% welding throughout the structure. The second benefit of the sandwich design is it seals the deck structure from the elements which can reduce the life of the scale.
Corrosion Protection	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.
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. Also provides 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 hermetically sealed against moisture or corrosive elements.
Weigh Bar Cabling	Stainless steel jacketed cables in factory installed conduit runs.
Easi-Post Self-Checking	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 4X 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.

ZM SERIES INDICATORS

The ZM Series Indicators are available with a wide range of features and functionality to match the needs of specific applications, from simple to complex. A truck scale In/Out software application provides tracking for open transactions and storage for completed transactions as well as tare weights.

Approvals –

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

Warranty –

5 years - Weigh Bars
10 years - Weighbridge structure

OPTIONS & ACCESSORIES

ZT Digital Load Cell
ZB210 Digital Junction Box
Guide Rails
Manhole Rings and Covers
Multi-Platform Systems for Axle Weighing
Guard Posts
Pre-Fab Foundations
Indicators
Remote Displays
Printers
ZM Kiosk Systems
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.
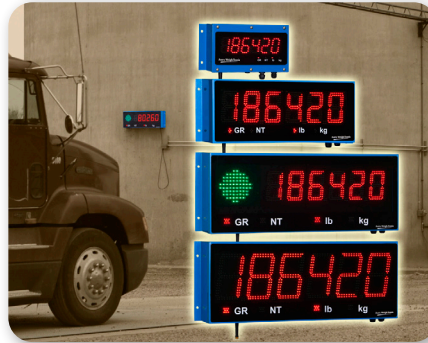
MANHOLE

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.

REMOTE DISPLAYS

These remote displays allow clear, comfortable viewing of scale information at considerable distances: indoors and outdoors. Popular options such as wireless RF connectivity and integrated traffic lights are available.

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 standard widths:
9'10.5", 11', 12', 13', 14'

Custom widths available by consulting factory

Avery Weigh-Tronix

www.averyweigh-tronix.com

Avery Weigh-Tronix is an ITW company