



BRIDGEMONT

Heavy Duty
Concrete Deck
Truck Scale
(BMC)

Technical Specification

DESCRIPTION

The BridgeMont Heavy Duty Concrete Deck (BMC) 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. The BMC is fully assembled at the factory, so when it arrives at the job site, it is ready for the concrete to be poured without other hidden costs or requirements for additional material and labor as found with many competitive models.

SPECIFICATIONS

FEATURE	BENEFITS
Gross Capacity	With a capacity 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 (LLC)	At 45 tons, the BMC Truck Scale is comparable to other product costing thousands more.
"r" Factor	With an "r" Factor of 2.65, the BMC 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 BMC uses fewer load sensors, only 8 on a typical 70' scale, compared to 10 or more on competitive models.
Weighbridge Thickness	At 10.125" thick, the BMC Truck Scale provides a lower profile, compact and structurally superior design.
Elevation Profile	At 14", the compact, efficient design of the BMC minimizes approach and exit requirements, and 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. No rebar or sheeting required.
Weighbridge Design	An outstanding weighbridge design, that includes a 5" field poured concrete deck, on top of a robust steel deck substructure. This superior design places the concrete in a compression application, above the neutral axis and the steel components in a tension and compression application. This design has more steel content than most competitive models.
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 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 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