



BridgeMont BMC Concrete Deck Weighbridge

Technical Specification

General

- The BridgeMont BMC Concrete Deck Weighbridge 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.

Features & Benefits

FEATURE	BENEFITS
Gross Capacity	With a capacity of 40 to 100 Tonnes this scale can handle a wide range of trucks and configurations.
Platform Lengths	Platform lengths from 6m to 24m; ensure that the customer has the right size weighbridge for their application
Platform Widths	Standard widths of 3m and 3.35m to fit a range of applications and existing foundations.
Dual Tandem Axle Rating (DTA)	At 30T, the BridgeMont Concrete Deck Weighbridge provides the highest Dual Tandem Axle Rating in its class.
Module Size	At 6m, 7m 7.5m and 8m; the BridgeMont uses fewer load sensors, only 8 on a typical 24m scale, compared to 10 or more on competitive models.
Weighbridge Thickness	At 261mm thick, the BridgeMont Concrete Weighbridge provides a lower profile, compact and structurally superior design.
Profile	At 355mm, the compact, efficient design of the BridgeMont minimises approach and exit requirements, and yet provides the user with total confidence in the integrity of the weighbridge.
Full Electronic Design	Avery Weigh-Tronix utilises state of the art technology in virtually every aspect of their weighbridges.
Weighbridge Design	An outstanding weighbridge design that includes a 130mm field poured concrete deck, on top of a robust steel deck substructure. This superior design places the concrete in a compression application, <u>above</u> 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 shotblasted to SA 2.5 industry standards. A high quality industrial grade urethane primer is applied, followed by a final coat of an acrylic polyurethane.
Module Installation	The absence of grout plates and the drilled in place anchor bolts mean simple, low cost installation.
Weigh Bars®	Capacity of 34 tonne 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 ally 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	Cable routed in factory installed conduit runs.
Weigh Bar Self-Checking	Rugged Easi-Post™ suspension with self-checking design absorbs shocks and vibration from sudden starting and stopping of vehicles on scale. <u>No check rods or bumper plates required.</u>
Stainless Steel Junction Box	Compact, all stainless steel junction and summation boxes, with connector less cables for elimination of moisture or condensation related problems.



Indicators

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

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 manhole includes a heavy duty cover to maintain weighbridge integrity.



Custom Systems

Can be customised with several hardware options such as loop detectors, ID readers, video surveillance, traffic lights, and wireless communication.

Approvals

OIML & NTEP

Warranty

2 years - Weigh Bars

5 years - Weighbridge

OPTIONS & ACCESSORIES

- Unattended Control Systems
- Remote Displays
- Guide Rails
- Printers
- Guard Posts
- MI-Payload, Measurement Intelligence Software
- Card Readers
- Barriers
- Automatic Number Plate Recognition (ANPR)
- Indicators
- Multi-Platform Systems for Axle Weighing

NOMINAL PLATFORM LENGTH (meters)	MODULES	WEIGH BARS	GROSS CAPACITY (tonnes)
6	1	4	30
7	1	4	30
7.5	1	4	30
8	1	4	30
12	2	6	60
15	2	6	60
16	2	6	60
18	3	8	100
22.5	3	8	100
32	3	8	100

All platform lengths are available in a choice of widths:
6m 7m 7.5m 8m

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