



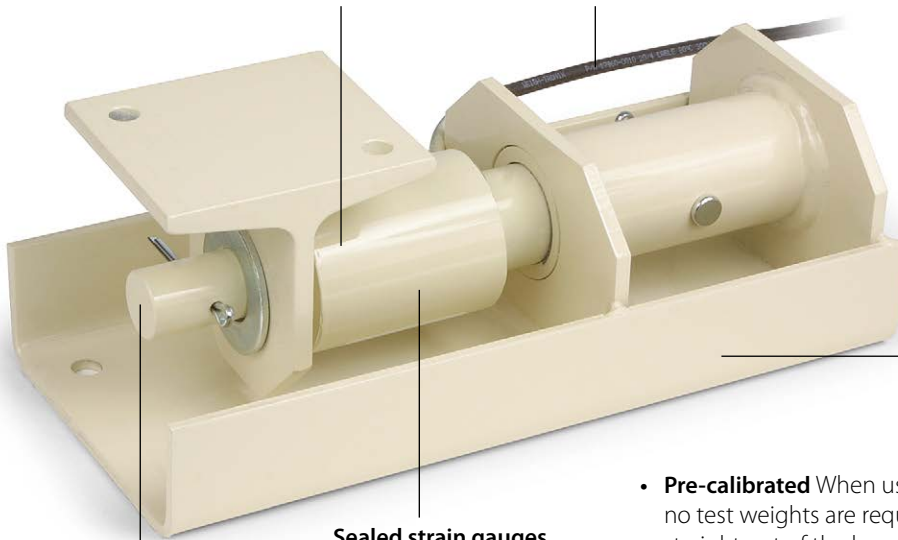
FEATURES

Steel potting shield

Protects against impacts better than plastic shields.

Polyurethane sheathed cables

Robust cable that is shielded to eliminate interference.



Durable alloy steel construction

Handles extensive use for years of trouble-free service.

Sealed strain gauges

Aerospace-developed sealing agent and industrial grade potting compound protect against the harsh agricultural environment.

Durable Finish

Options include powder coat, liquid paint, and zinc plated

- **Pre-calibrated** When used with Avery Weigh-Tronix indicators, no test weights are required so accurate weighing is obtained straight out of the box.
- **Optional temperature compensation** Maintains accuracy over varying temperatures.
- **3 year warranty**

Weigh Bar Kit

Weight Sensors

TECHNICAL SPECIFICATION

Brackets Simplify Installation

Capable of 99.75% Accuracy

3-Year Warranty

Robust Sealed Construction

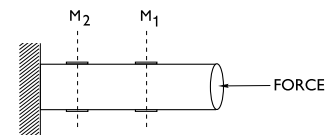
Our industry leading technology, the Avery Weigh-Tronix Weigh Bar, was born on the farm and is specifically designed to withstand the tough conditions of the farm environment. Environmental seals and coatings protect against rain, snow, dust and mud. Weigh Bars are engineered using Finite Element Analysis (FEA) and constructed to handle the toughest jobs. All these features add up to years of precise, trouble-free operation. The Weigh Bar design handles End Loading, Side loading and Torsion better than other weighing solutions on the market

Our universal scale kits make it easy to implement our Weigh Bar weighing solutions into your mobile and stationary weighing needs of your operation. They can be used to build scales of almost any size and shape for your operation. Our Universal Scale Kits can be used to create Platform, livestock, split axle, bulk storage, and stationary feed mixer scales in addition to other specialty scale applications.

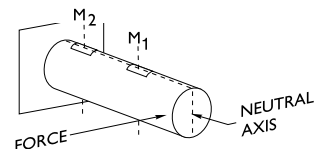
SIMPLY ACCURATE WEIGHING

The Weigh Bar has superior accuracy in all weighing environments and was specifically designed to handle the unique stresses present in mobile weighing.

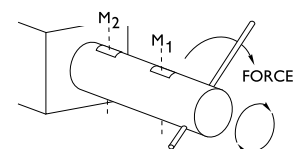
End Loading causes an equal strain throughout length so all sensors detect the same strain and weight measurements are unaffected.



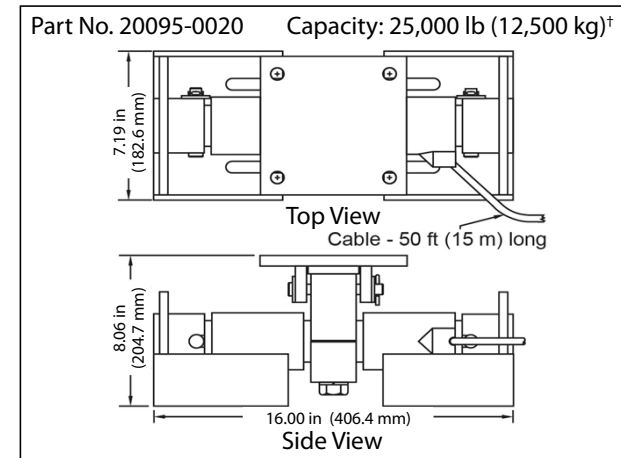
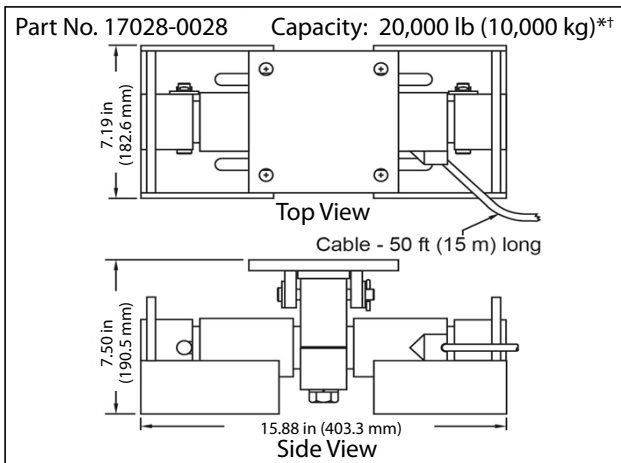
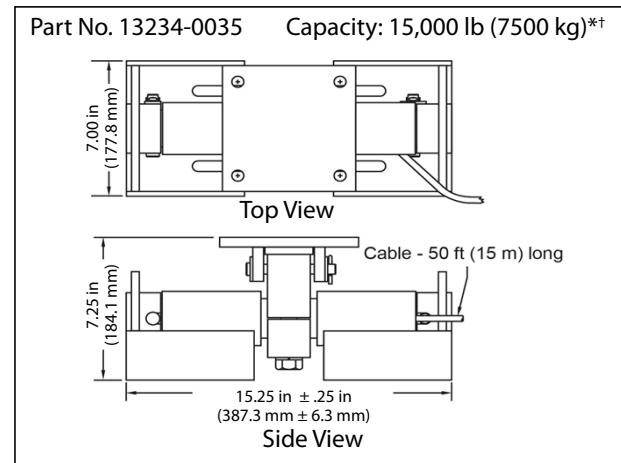
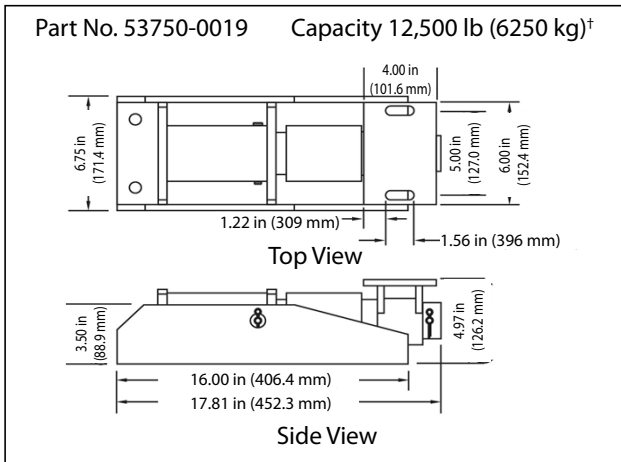
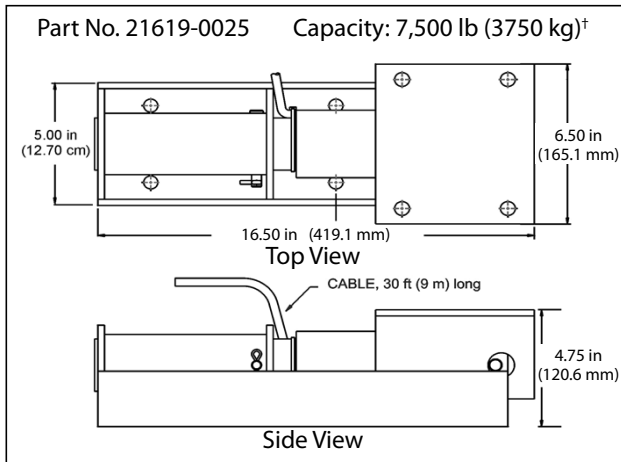
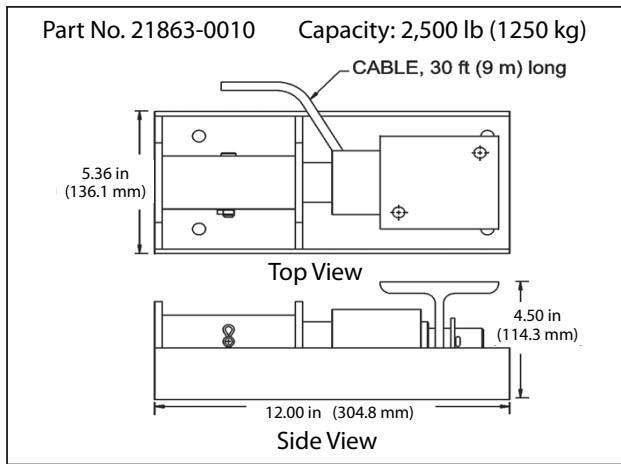
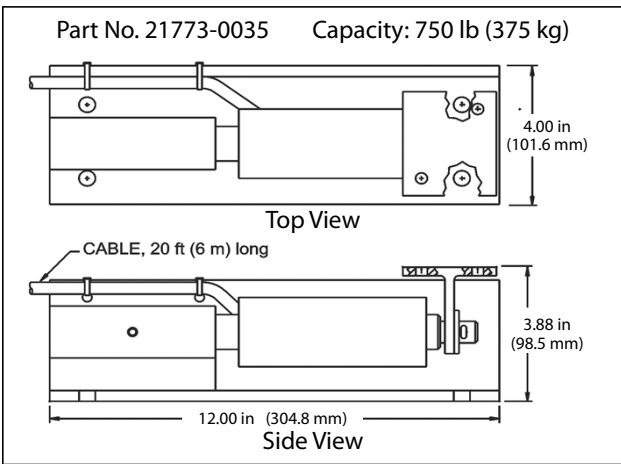
90° Side Loading does not cause tension or compression at sensor positions and does not therefore influence linear weight measurements



Torsion (Twisting) causes an equal strain to be measured by all sensors so weight measurement is unaffected.



DIMENSIONS



^{*}For stationary weighing only.
[†]Nominal span temperature compensation standard for 30k to 100k kit.

PERFORMANCE SPECIFICATIONS

Accuracy: 99.75%

Maximum Excitation Voltage: 20V AC or DC

Input Resistance: 350 +20/-0 ohms

Output Resistance: 350 ohms

Zero Balance: ± 0.5 mV/V

Output at Rated Capacity: Listed as “cal dia”

Non-linearity (max): 0.05% of rated output

Repeatability: .05% of rated output

Hysteresis (max): 0.07% of rated output

Creep (max): 0.10% in 1 hour

Temperature Effect on Output (-20 to+50 deg C):

+ .34%/deg C (Uncorrected). Temperature effect on output is correctable to ± .008%/deg on selected bars

Temperature Effect on Zero Balance: ± 0.0002 mV/V/Deg C

Overload Rating: 200% of capacity

Insulation Resistance: > 500 Mega ohms

UNIVERSAL SCALE KITS (Indicator not included)

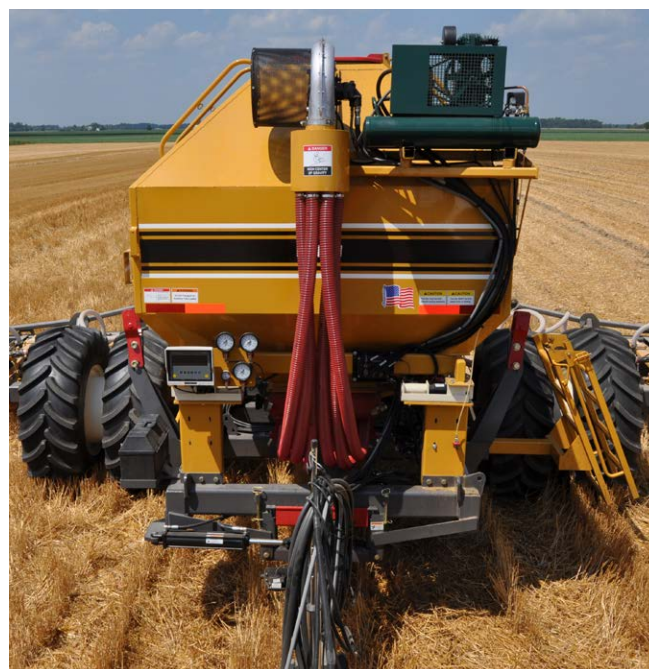
Kit Part Number	*Maximum Scale Capacity		Individual Weigh Bar Bracket Assembly	Ship Weight	
	lb	kg		lb	kg
20263-0018	3,000	1,500	21773-0035	85.0	38.5
20264-0017	10,000	5,000	21863-0010	95.0	43.1
20265-0016	30,000	15,000	21619-0025†	155.0	70.3
53973-0010	50,000	25,000	53750-0019†	224.0	101.6
20267-0014	60,000	30,000	13234-0035*†	300.0	136.1
20268-0013	80,000	40,000	17028-0028*†	315.0	142.9
20291-0014	100,000	50,000	20095-0020*†	360.0	163.3

* For stationary weighing only.

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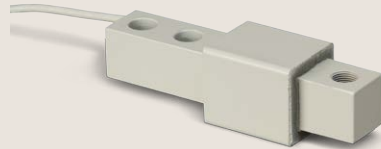
Maximum scale capacity = Weigh Bar capacity x number of Weigh Bars used in system.

Maximum load applied to scale = Maximum scale capacity minus dead-load weight.

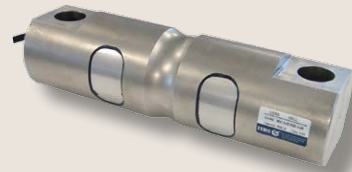


WEIGH BAR® VS. SHEAR BEAM

The Weigh Bar by design deflects more than a shear beam. This allows the Weigh Bar to absorb much more energy from shock loading. This ability to absorb shock loading is especially important in mobile applications where the equipment is used on rough and uneven terrain. The shear beams' inability to absorb energy often leads to using a cell rated at twice the capacity to compensate for this shortcoming.



Avery Weigh-Tronix Weigh Bar



Shear Beam

Design Purpose	Specifically designed for farm use	Usually a more generalized design for a variety of industrial applications
Accuracy	Individual weigh bar .25% max error and system with multiple weigh bars 1% max error	Variable depending on suitability of application but of generally lower system accuracy than weigh-bar design when used in abusive environments.
Strength	Based on inherently strong design with significant overload capacity	Requires higher capacity due to their generally poor ability to withstand shock and side load



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Avery Weigh-Tronix



SIMPLY ACCURATE



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