axleWEIGH

rinstrum smart weighing

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IN-MOTION VEHICLE SCALE

Rinstrum's axleWEIGHr is a fast, accurate and economical way to monitor commodities that are coming into or leaving your facilities.

Drive over the scale while moving a constant 2-3 mph. The scale will automatically weigh each axleWEIGHr and print a receipt with individual axle weights and the total. If you store the trucks ID and tare weight, or use 2 pass weighing, the controller will calculate the Gross, Tare and Net values.

1 Pre-cast Platform Structure

- Install on a minimum of 12" of compacted flat and level CA6 crushed limestone. NOTE: More than 12" is required for certain soils to maintain a solid base.
- Concrete approaches increase accuracy and reduce maintenance and cleaning
- Entire scale is semi-portable and can be easily be moved from site to site

4 Accuracy and Performance

- Better than 0.5% accuracy on average with proper use and installation
- Efficiently track profits and inventory movement without stopping on the scale
- Fastest return on investment system to obtain individual axle weights and gross vehicle weight
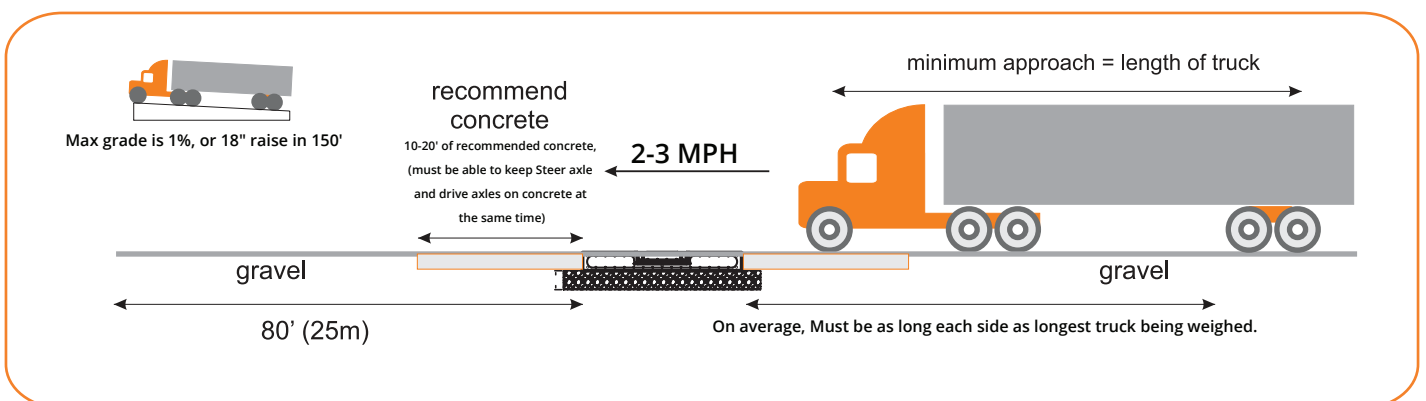
3 Service

- No specialty tools or knowledge required to install or maintain scale
- Patented weighbridge removal process allows for easy cleaning and service
- Sloped floor and 4" drain keep scale clean and dry
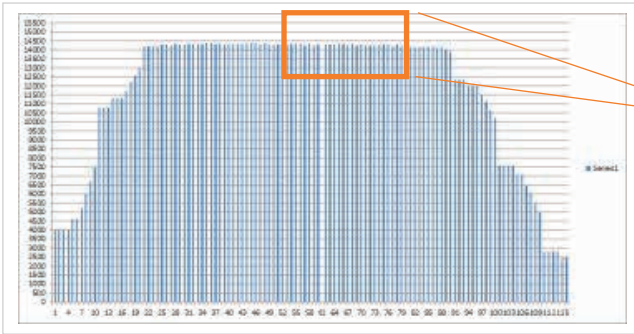
2 Installation

- Durable 5000 psi pre-cast platform structure
- Certified Patterson lifting points on both pre-cast platform and weighbridge
- Installation time is less than 8 hours (2 men) on average install precast platform from beginning to end

Installation Recommendations

Max grade is 1%, or 18" raise in 150'

recommend concrete
10-20' of recommended concrete, (must be able to keep Steer axle and drive axles on concrete at the same time)

2-3 MPH

minimum approach = length of truck

gravel

gravel

80' (25m)

On average, Must be as long each side as longest truck being weighed.

Accurate

On average better than ± 0.5% repeatability can be expected. Company testing as well as extensive field trials have shown that with extended flat and level concrete approaches ± 0.2% or better accuracy can be achieved. Individual results may vary. Well maintained vehicles weigh the best.

Weighing samples are captured at 100 times per second and then averaged within the offset window.

Operation

Single Pass Weighing With Known Tare Weight	**Two Pass Weighing – Weigh In and Weigh Out**
Press the TRUCK Key	*INBOUND*
Enter your known Tare weight then OK	Press the TRUCK Key then OK
Drive over the scale	Drive over the scale
OR	*OUTBOUND*
Press the TRUCK Key	Use Up/Down arrows to select your Truck ID then OK
Enter Truck ID to recall a storred Tare weight then OK	Drive over the scale
Drive over the scale	

SPECIFICATIONS

Capacity	50,000 lbs (20 tons) per axle
Display Resolution	20 lbs (10kg)
Operating Speeds	Structurally Certified for "in road use" at 40 mph up to 50,000 lbs (22.7 tons) Recommended speed 2-3 mph (5 km/h) Speed error above 7 mph
Overload	150% (for 10 tons load cells)
Scale	
Precast Scale Module	Dimensions: 12' x 8'5" x 11.5" (3.65 m x 2.56 m x 0.29 m) Weight: 14,200 lbs (7.1 tons)
Scale Weighbridge	Dimensions: 11' x 2.5' x 5" (3.4 m x 0.76 m x 0.125 m) Weight: 2,100 lbs (1.05 tons) 12' and 12' drop-wall is available.
Load Cell Assembly	Outboard, In-tension cradle assembly, self-contained
Load Cells	4 x 22,000 lbs (10 tons) folded shear beam load cells Stainless Steel, Hermetically Sealed, IP68 ingress Protection, M12 Watertight connectors
Optional	
Clicker System	Remote Truck ID key-fob
Automatic Print	Time/Date, Truck ID, Axle weights, and Gross, Net, Tare weights
Remote Display	4-inch remote display with super bright digits, Stop Go lights and quick disconnect cables
Information Management	We have data collection/management systems for Farms (Harvest Management) plus aggregate and generic for transportation companies.

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