

# WEIGH-TRONIX

The Weighline Rail Scale system is a simple, practical method of achieving static or in-motion rail weighing. Standard configuration is four 5' 10" long sections of rail, each fitted with strain gauges that fit into the existing rail. They become a convenient, accurate rail car weighing system that installs in hours rather than weeks.



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## Features and benefits

**Fast payback**—Accurate rail car weighing saves you from costly under loading of cars and overload fines.

**Safety**—Use wheel weights to assure safe, balanced loading.

**Low-cost installation**—No pits or foundations to construct. No concrete to pour. Just replace existing rail with matching Weighline sections.

**Versatile instrumentation**—Static or in-motion weighing. Wheel, axle, and car weights are instantly available.

**Gapless weighbridge for in-motion weighing**—Weighline sections welded into existing track form a stable weighbridge eliminating the impact associated with conventional scales. And trains not being weighed can move across the scale at normal line speed without damage to the scale.

## Specifications (Standard static configuration)

**Rail type:** 115 lb AREA (consult factory for other sizes)

**Rail length:** 70" (1.78 m)

**Active weighing length per section :** 8 inches (20 cm)

**Mounting:** Standard tie plates direct to ties

**Type of weighing:** Two draft or full draft

**Number of Weighline sections:**

Two draft - four, Full draft - eight

**Maximum axle load:** 80,000 lb (40,000 kg)

**Maximum car weight:** 300,000 lb (150,000 kg)

**Scale division size:**

100 lb (50 kg), switchable to 20 lb (10 kg) for calibration

**Static accuracy\*:**

Full draft:  $\pm 0.25\%$  or  $\pm 200$  lb (100 kg), whichever is greater

Two draft:  $\pm 0.4\%$  or  $\pm 300$  lb (150 kg), whichever is greater

**Instrumentation:** Weigh-Tronix WI-130 Indicator with Weighline program

**Operating temperature range:**

-20°F to 120°F (-28°C to 49°C)

**Weight:** 230 lb (105 kg) per rail assembly

*NOTE: Weighline is not currently approved for certified weighing and cannot be used for custody transfer .*

## Other Weighline Systems Available

### Static Options for special applications

**Non standard rail sizes:** 20 lb/yd - 175 lb/yd

**Weighline section capacities :** 5,000 lb to 125,000 lb

**Scale capacities :** 20,000 lb to 1,000,000 lb

**Multiple Weighline sections:**

For different sized and special cars

### In-motion - low speed systems

**Speed:** Maximum 5mph (8km/h)

**Accuracy:** 0.5% of car weight  $\pm 400$  lb whichever is greater\*

**Rail sections:** Four, bolt-in 70" long

**Instrumentation:** Full feature, in-motion indicator

**Wheel detectors:** Two, double arm, mechanical switches

(Refer to application data sheet)

\* Accuracy is dependent on foundation stability.

### Medium and high speed systems

**Multiple Weighline sections welded into position**

**Speeds:** Up to 35 mph (56 km/h)

**Instrumentation:**

High speed, full feature, in-motion indicator

Consult factory for specific applications.

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