FAIRBANKS®
SCALES

2000 SERIES
MODULAR ABOVEGROUND RAILROAD TRACK SCALE

Pit-free, aboveground track scale that economically integrates with standard U.S. rail configurations.

Fairbanks.com

2000 SERIES

MODULAR ABOVEGROUND RAILROAD TRACK SCALE

A simple, yet revolutionary design concept that dramatically reduces expenses traditionally associated with building a rail scale.

Fairbanks Scales has more than 190 years of engineering and design expertise invested in producing the best weighing solutions in the world. The 2000 Series Rail Scale is one such solution, boasting reduced cost for construction, maintenance and operation, through a flexible modular system that integrates easily with standard rail configurations.

From basic weighing to sophisticated data tracking, the 2000 Series handles a variety of applications easily and cost effectively.

Fairbanks' track scale instruments are designed to facilitate a wide range of weighing application outputs, from standard reporting capabilities to complex data tracking.

The 2000 Series also meets or exceeds all structural, sectional and accuracy requirements of the American Association of Railroads, the National Institute of Standards and Technology, and Cooper E80 rating system.

ASSOCIATION OF AMERICAN RAILROADS

NIST

REDUCED MAINTENANCE AND OPERATIONAL COSTS

Eliminating the underground pit from the scale design has tremendous advantages for rail scale operators looking to safely save time and money. Confined space regulations don't apply to the 2000 Series, so up-time is rarely interrupted. Standard maintenance is safely, quickly, and easily accomplished above grade.

STURDY, MODULAR CONSTRUCTION

By anchoring the rail directly on steel I-beam girders, the 2000 Series offers a sturdier platform than can be achieved by unsupported rail-spanning cross beams. Coupling the sturdy design with checking, to keep the platform square, the 2000 Series is a solid floating platform. The scale's decks are fully covered with removable steel plates for safety and to ensure fully-protected and fully-accessible load cells and electronics. Like all Fairbanks designs, the 2000 Series features an open bottom that eliminates corrosion caused by trapped moisture.

REDUCED CONSTRUCTION COSTS

The 2000 Series' streamline design drastically reduces expenses associated with building a traditional full-length rail scale.

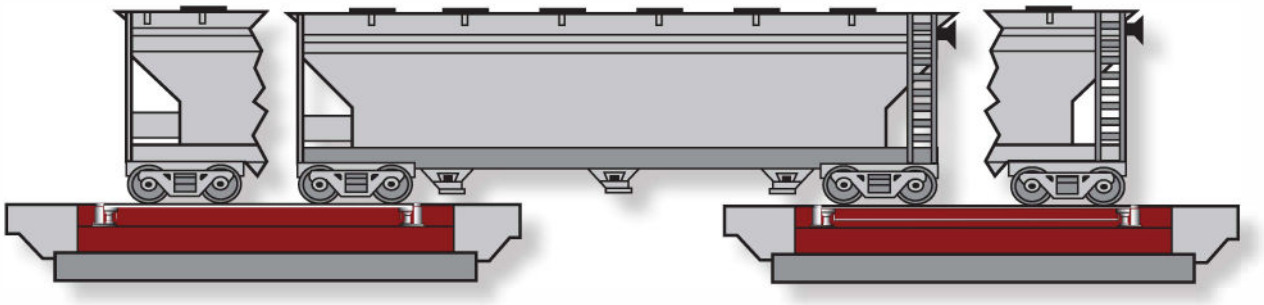
Set just below the rail, the 18 ½" end-wall height accommodates the 2000 Series' low profile and provides ample access to load cells and electronics without the need for an expensive pit. Additionally, the modular nature of the 2000 Series minimizes the size of crane required for installation.

The Fairbanks 2000 Series Rail Scale is an economical alternative to a traditional full-length rail scale. Its modular, low profile, aboveground design enables it to be sized and placed only where it is needed, under the trucks of the rail car. Its modular deck is also easy to install and can be used with any size rail to accommodate various rail car sizes.

2000 Series Railroad Track Scale Module - Weighing Configurations

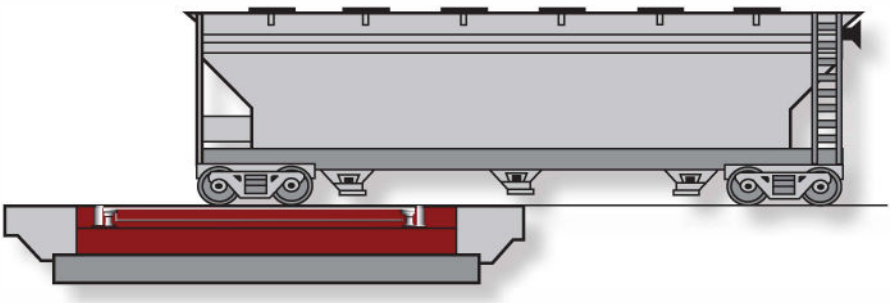
Aerial view

Single Draft weighing system diagram - Side view cutaway



The Single Draft system illustrated above shows how a rail car is weighed using two 2000 Series rail modules. Modules come in a variety of lengths for compatibility with a variety of rail car sizes. See table below for standard configurations.

Dual Draft weighing system diagram - Side view cutaway



2000 Series Module Configurations

Single Draft	Dual Draft
12’ 6” & 12’ 6”	12’ 6”
12’ 6” & 25’	25’
25’ & 25’	

In a dual Draft system the front and rear axles of the rail car are weighed separately. The scale instrument combines the two weights to calculate the total car weight. This method is slightly less accurate than the single draft system and rail car loading cannot be monitored.

ACCURATE, RELIABLE LOAD CELLS

Think for a moment about the extraordinary mass and intense shocks produced by repetitive rail car traffic. The unrelenting intensity of rail weighing applications makes it imperative for track scale customers to rely on a time-tested and field-proven load cell, like Fairbanks’ 110,000 pound capacity rocker column.

The heart of the 2000 Series rail scale, this robust, all stainless, fully-electronic load cell has delivered reliable, accurate weighments for decades in the most demanding rail applications. It features air-tight protection from moisture through a true hermetic seal at the cable entry, an industry leading IP69K enclosure rating, and Armour Guard stainless cable jacketing to protect its conductors.

This cell has a true hermetic seal at its cable entry point and is constructed of 100 percent stainless steel.

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MODULAR ABOVEGROUND RAILROAD TRACK SCALE

Weighing Solutions for the World Since 1830

Fairbanks.com

SPECIFICATIONS

Sectional capacity . . . . . 85 tons per section
Nominal capacity:
  Single module (12'-6") . . 85 tons
  Double module (25') . . . 170 tons
Module construction . . . . Welded steel I-beam, open bottom understructure
Shipping weight . . . . . 5,500 lbs per module
Load cell data:
  Capacity . . . . . 110,000 lbs
  Type . . . . . Rocker column
  Material. . . . . Stainless steel
  Protection . . . . . IP69K complete hermetic seal with glass-to-metal header at cable entry
  Resistance . . . . . 1,000 ohms
  Output. . . . . 2.0 mV/V
  Approvals . . . . . NTEP CC# 97-078, Factory Mutual
Approaches . . . . . 25' minimum concrete, each end
Design rating . . . . . Cooper E-80 loading
Accessories . . . . . Instruments, ticket and report printers, outdoor driver assist terminals, traffic signals, remote displays
Approvals . . . . . NTEP CC# 01-016, MC# AM-4954

ACCESSORIES

Scale Instruments

Traffic Signals

Custom Software

Remote Displays

Ticket Printers

Outdoor Terminals

OPTIONS

Custom solutions

Fairbanks FB2560 Instrument features smart sectional controllers with encapsulated electronics.

INTALOGIX® TECHNOLOGY

Real world problems, such as lightning, can wreak havoc on your scale. Fairbanks has developed an industry-leading technology, Intalogix, to protect your scale from mother nature. Intalogix is a standard feature on the 2000 Series Railroad Track Scale.

In addition to the highest level of protection against lightning strikes and power surges, Intalogix also has the capability to digitally isolate individual load cells and instantly notify operators if a problem arises.

Your Fairbanks Scales Authorized Representative is:

cross®

FAIRBANKS SCALES

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