

# Railroad Track Scales

## Distributor Reference Guide

New Standard  
Coal Tar Undercoating  
Option for Rail Scales  
- See Page 9

Important note:  
Fairbanks product information located at the  
**Nexus** platform are updated more  
frequently and are the best source for  
current product information.



## Contents

Railroad Track Scale Foundation Drawings.....	3
2000 Series – Advanced Railroad Track Scale.....	4
2000 Series Railroad Track Scale Accessories.....	5
Fully Electronic AAR Track Scales.....	6
AAR Railroad Track Scale Accessories.....	7
Weigh-In-Motion Railroad Track Scale .....	8
Rail Scale Special Options .....	9
Coal Tar Undercoating – .....	9
Solutions Options .....	10

The prices and product information in this catalog are for reference only.  
Please check the Fairbanks Nexus online catalog system for the most up to date information.



# Railroad Track Scale Foundation Drawings

## Railroad Track Scale Foundation Drawings

Product #	Description	List Price
154926	PIT - 6'9" AAR - DRAWING	\$0.00
154927	ABOVE GROUND FOUNDATION DWG	\$0.00
154928	SHALLOW PIT FOUNDATION DWG	\$0.00

### Notes:

- It is the responsibility of the local personnel to know the requirements of the state, county, and governing railroad where the scale will be installed, and to order the appropriate prints accordingly.
- If special state, county, and governing railroad requirements exist, please submit those requirements to the Solutions Group in order to receive the proper rail scale foundation drawings.
- Drawings not listed here are quoted through the Solutions Group.
- Lead time for **standard certified drawings** is one (1) week **AFTER** Railroad approval
- Certified drawings are sent to ASM, Distributor, and/or Customer Service Centers **ONLY**.

## Professional Engineer-Certified drawings

Product #	Description	List Price
124999	PROFESSIONAL ENGINEER SEAL	\$657.00 -NET

### Notes:

- Required for California foundation drawings.
- Add one (1) additional week to standard drawing lead time for P.E. stamped drawings.
- No further discount applies

# 2000 Series – Advanced Railroad Track Scale

<b>2000 Series – Advanced Railroad Track Scale</b>	<b>Pit-free, above ground track scale</b>
--	---

Talon’s structural steel construction is the foundation of its enduring strength. Its longevity is reinforced by Fairbanks’ innovative open bottom design which eliminates internal corrosion failures. Fairbanks’ Talon steel deck scales offer a choice in capacity and deck plate thickness. For the most robust, long term performance, a field pour concrete deck option is available for the most aggressive option. Safe, heavy-duty railroad track scales that are built to last. The advanced design of the 2000 Series minimizes the length of scale needed to weigh rail cars. This scale features easy, cost-effective installation, advanced modular construction and hermetically sealed 110K rocker column load cells. Best of all, the 2000 Series is virtually maintenance-free after installation. These track scales meet all requirements of the Association of American Railroads and National Institute of Standards and Technology Handbook 44 and feature Fairbanks' Intalogix® Technology.

Sectional Capacity	85 tons per section
<b>NOMINAL CAPACITIES</b>	
... Single Module (12'-6")	85 tons
... Double Module (25')	170 tons
Module Construction	Welded steel I-beam
Rail Size	115 lbs/yard
Approaches	25' concrete minimum, each end
Design Rating	Cooper E-80 Loading
<b>LOAD CELL SPECIFICATIONS</b>	
Height	7"
Load cell type	Rocker Column
Construction	Stainless Steel
Protection	Hermetically Sealed
Protection rating	IP69K (NEMA 6P)
Capacity	50t (110k)
Bridge resistance	1,000 ohms
Output	2.0 mV/V
Cable length	15'
Cable Protection	Stainless Steel Braid
Combined Error	≤ 0.02% (FSO)
Zero Balance	1.0%
Excitation Voltage	5 to 15 VDC
Ultimate Overload	300%
Regulatory approvals	NTEP, CC 97-078
Approvals	FM approved



Configurations

Single Draft	Dual Draft
12' 6" & 12' 6"	12' 6"
12' 6" & 25'	25'
25' & 25'	

## 2000 Series - Advanced Railroad Track Scale

Product #	Description	1st Module	2nd Module	1st Module Capacity	2nd Module Capacity	Weight	List Price
91646	2000 Series, 12'-6"	12'-6"	None	85 tons	None	6,852	\$47,458.00
91647	2000 Series, 25'-0"	25'-0"	None	170 tons	None	13,604	\$82,648.00
91648	2000 Series, 12'-6" x 12'-6"	12'-6"	12'-6"	85 tons	85 tons	13,822	\$93,626.00
91649	2000 Series, 12'-6" x 25'-0"	12'-6"	25'-0"	85 tons	170 tons	20,556	\$128,787.00
91650	2000 Series, 25'-0" x 25'-0"	25'-0"	25'-0"	170 tons	170 tons	27,858	\$164,082.00



## 2000 Series Railroad Track Scale Accessories

### **Anti-Creep Device Kit - for 115# rail only\***

Product #	Description	Weight	Net Price
152810	2000 SERIES ANTI-CREEP KIT	690 lbs	\$2,613.00

### **Live Rail Hardware Kits - for 115# rail only\***

Product #	Description	Weight	Net Price
152812	2000 SERIES LIVE RAIL HDW KIT - 12.5' SCALE - 115# RAIL ONLY	90 lbs	\$350.00
152825	2000 SERIES LIVE RAIL HDW KIT -25' SCALE - 115# RAIL ONLY	180 lbs	\$684.00

### **Approach Kit - for 115# rail only\***

Product #	Description	Weight	Net Price
152801	25' APPROACH KIT-RAIL SCALE	1270 lbs	\$2,711.00
152802	50' APPROACH KIT-RAIL SCALE	2230 lbs	\$4,718.00

### **Rail Trough Kit - for 115# rail only\***

Product #	Description	Weight	Net Price
159704	25' Approach Rail Trough Kit - One 25' Approach (for 115# Rail ONLY) (Price is NET)	600 lbs	\$3,240.00
159690	50' Approach Kit - One 50' Approach	1200 lbs	\$6,479.00
169769	Dead Span Trough Kit - 10'-20'	1340 lbs	\$2,085.00
169770	Dead Span Trough Kit - 21'-30'	2010 lbs	\$3,908.00
169771	Dead Span Trough Kit - 31'-40'	2680 lbs	\$5,214.00

### **Dead Span Hardware Kit - for 115# rail only\***

Product #	Description	Weight	Net Price
152820	2000 SERIES RRT DEAD SPAN HDW -DEAD SPAN KIT - 10' TO 20'	1250 lbs	\$2,297.00
152830	2000 SERIES RRT DEAD SPAN HDW -DEAD SPAN KIT - 21' TO 30'	1650 lbs	\$3,323.00
152840	2000 SERIES RRT DEAD SPAN HDW -DEAD SPAN KIT - 31' TO 40'	2050 lbs	\$4,336.00
106644	Junction Box mounting bracket, with anchors	10 lbs	\$154.00


### **Rail Scale Gap Cover Kits**

Product #	Description	Weight	List Price
153312	12'6" GAP COVER KIT / 2000 RR	1300 lbs	\$3,470.00
153325	25'GAP COVER KIT FOR 2000 RR	2100 lbs	\$5,431.00

Please check the Fairbanks Nexus online catalog system for the complete and most up to date information.



## Fully Electronic AAR Track Scales

Fully Electronic AAR Track Scales		Pit, Dual Use Scale
<p>Full-size, pit-type scales designed for weighing the heaviest of loads. The A.A.R.'s reinforced, live, concrete deck with recessed rails allows railcars and trucks to be weighed on the same scale. These scales meet or exceed all structural, sectional and accuracy requirements of the Association of American Railroads and Cooper E80, so extra-heavy railcars and locomotives can pass directly over the scale with complete safety. Features Intalogix® Technology.</p>		
Gross Rated Capacity	360 tons	
Sectional Capacity	180 tons	
Number of Sections	4	
Minimum Soil Bearing Capacity	4000 psf as required by AAR	
CLC (For COMBO Scales Only)	80k	
LOAD CELL SPECIFICATIONS		
Load cell type	Compression	
Capacity	200k	
Construction	Stainless Steel	
Protection	Hermetically Sealed	
Protection rating	Exceeds NEMA 6P & IP68	
Safe Overload	150%	
Ultimate Overload	200%	
Bridge resistance	450 ohms	
Output	2.0 mV/V	
Cable length	15'	

### Fully Electronic AAR Track Scales

Product #	Description	Platform Length	Weight	List Price
145960	1492 SERIES ELEC RRTS 60X10	60'	43,765	\$135,776.00
145966	1493 SERIES ELEC RRTS 66X10	66'	48,142	\$145,437.00
145970	1494 SERIES ELEC RRTS 70X10	70'	51,060	\$195,101.00
145972	1495 SERIES ELEC RRTS 72X10	72'	52,519	\$196,250.00
145980	1496 SERIES ELEC RRTS 80X10	80'	58,354	\$243,328.00

Please check the Fairbanks Nexus online catalog system for the complete and most up to date information.

## AAR Railroad Track Scale Accessories

### **Anti-Creep Device Kit - for 115# rail only\***

Product #	Description	Weight	List Price
152750	AAR SERIES ANTI-CREEP KIT	830	\$3,344.00

### **Live Rail Hardware Kits - for 115# rail only\***

Product #	Description	Weight	List Price
152760	AAR SERIES LIVE RAIL HDW KIT	310	\$1,160.00
152770	AAR SERIES LIVE RAIL HDW KIT	350	\$1,325.00
152780	AAR SERIES LIVE RAIL HDW KIT	450	\$1,679.00

### **Approach Kit - for 115# rail only\***

Product #	Description	Weight	List Price
152801	25' APPROACH KIT-RAIL SCALE	1,270	\$2,711.00
152802	50' APPROACH KIT-RAIL SCALE	2,230	\$4,718.00

106644	Junction Box mounting bracket, with anchors	10	\$154.00
--------	---	----	----------

### **Rail Trough Kit - for 115# rail only\***

Product #	Description	Weight	List Price
159704	25' Approach Rail Trough Kit - One 25' Approach (for 115# Rail ONLY) (Price is NET)	600	\$3,240.00
159690	50' Approach Kit - One 50' Approach	1,200	\$6,479.00


### **Analog Rail Scale Option**

Product #	Description	Weight	List Price
156800	Analog Truck Scale Option - Analog Version		\$0.00

Please check the Fairbanks Nexus online catalog system for the complete and most up to date information.



# Weigh-In-Motion Railroad Track Scale

Weigh-in-Motion Railroad Track Scale	
<p>Combining the proven reliability of the 2000 Series aboveground railroad track scale with new in-motion weighing capability, Fairbanks Scales' WIM RR Track scale can process all your railroad car weighing needs and incorporate them into your system with ease.</p> <p>Using our standard 2000 Series modular scale design and load cells, we're able to maximize all the benefits including modular construction, proven reliability, and hermetically sealed load cells while adding the superior processing power of Weigh-In-Motion capabilities.</p> <p>Fairbanks PC user interface allows the customer to customize the user experience and reporting capabilities to maximize operational efficiency exactly as they need it.</p> <p>Fairbanks' unique ability to retrofit existing static or weigh-in-motion scales to Fairbanks' Weigh-in-Motion while maintaining AAR/NTEP Legal for Trade status is an industry first and allows us to focus on exactly what you need without a "one-size-fits-all" approach.</p>	

## Specifications:

<b>Sectional Capacity</b>	85 tons per section	<b>LOAD CELL SPECIFICATIONS</b>	
<b>NOMINAL CAPACITIES</b>		<b>Height</b>	7"
<b>Single Module (12'-6")</b>	85 tons	<b>Load cell type</b>	Rocker Column
<b>Module Construction</b>	Welded steel I-beam	<b>Construction</b>	Stainless Steel
<b>Rail Size</b>	115 lbs/yard	<b>Protection</b>	Hermetically Sealed
<b>Approaches</b>	75' concrete minimum, each end	<b>Protection Rating</b>	IP69K (NEMA 6P)
<b>Design Rating</b>	Cooper E-80 Loading	<b>Capacity</b>	50t (110k)
<b>First Module Size</b>	12' - 6'	<b>Bridge Resistance</b>	1,000 ohms
<b>First Module Capacity</b>	85 tons	<b>Cable length</b>	15'
<b>INSTRUMENTATION</b>		<b>Cable Protection</b>	Stainless Steel Braid
<b>Enclosure</b>	Stainless Steel	<b>Combined Error</b>	≤ 0.02% (FSO)
<b>Enclosure Rating</b>	NEMA 4X	<b>Zero Balance</b>	1.0%
<b>Processor</b>	32-bit, 400 MHz	<b>Excitation Voltage</b>	5 to 15 VDC
<b>Memory</b>	64 MB SDRAM	<b>Ultimate Overload</b>	300%
<b>On-board Storage</b>	64 MB Flash	<b>Regulatory Approvals</b>	NTEP, CC 97-078
<b>Number of Scales</b>	1 (analog only)	<b>Approvals</b>	FM approved
<b>Units</b>	lb, kg & t		
<b>Excitation</b>	7.4 VDC		
<b>Keypad</b>	0-9, Decimal, Enter & 9 control keys		
<b>Displayed Characters</b>	1.1" Primary; 0.7" Secondary		
<b>Load cell interface</b>	Analog		
<b>Load Cells</b>	16 -350 ohm or 16 - 1,000 ohm		
<b>Outputs</b>	One (1) RS232 bidirectional; One (1) RS485 transmit only; One (1) USB port/host (full hub support); One (1) RJ45 Ethernet TCP/IP		
<b>Power Requirements</b>	110 or 240 VAC; 50/60 Hz		
<b>Clock</b>	Real time clock, 24 or 12-hour a.m./p.m., Date (month/day/year)		
<b>Resolution</b>	10,000 divisions		
<b>Display resolution</b>	Programmable to 999,999		
<b>Humidity</b>	0 to 100% noncondensing		

## Weigh-in-Motion Rail Scale

Product #	Description	Weight	List Price
173020	2000 Series Weigh-in-Motion (WIM) Railroad Track Scale	6,852	Request Quote



## Rail Scale Special Options

### Coal Tar Undercoating –

For an added barrier of protection against the corrosive effects of rugged environments, Fairbanks offers a coal tar epoxy coating. This option provides the ultimate and maximum levels of protection against the corrosive effects of water, salt, chemicals, and fertilizers. This option is especially valuable for coating the steel under the scale in a pit-type environment.

To order coal tar for rail scales (or any standard truck scale) simply locate the type and size of scale you are ordering and refer to the corresponding wholesale price. You can simply add this single part number line item to your order using Qty (1) of Part #165700, for the respective Wholesale dollar amount listed in the charts.

Fairbanks Rail Scales Coal Tar Undercoat (PN 165700)					
2000 Series			AAR Scales		
	Size	Wholesale Price		Size	Wholesale Price
Single Module	12"6"	\$763	1492 Series	60' x 10'	\$2,237
Double Module	25'	\$1,525	1493 Series	66' x 10'	\$2,461
Single-Single	12'6" - 12'6"	\$1,525	1494 Series	70' x 10'	\$2,610
Single-Double	12'6" - 25'	\$2,280	1495 Series	72' x 10'	\$2,685
Double-Double	25' - 25'	\$2,034	1496 Series	80' x 10'	\$2,983

If you order the coal tar coating with your order, please remember to add 1 week of extra lead time on the order. This is a secondary process that cannot be performed until the rest of the scale has been built and painted.

If you have a custom size scale, please continue to go through Solutions to obtain a quote.

## Solutions Options

### **Series 2000 Flush Deck –**

The scale deck is elevated to the top of the pit wall and the top of the rail. This generates a flush surface and eliminates changing elevations. Several versions are available to eliminate tripping hazards, flush deck for vehicle cross traffic, flush deck for simple foot traffic and other.

### **Optional Rail Size –**

The main girders can be facilitated to accept any AAR approved size rail.

### **Dump Through –**

Open area designed in the scale that allows rail cars to dump product through the scale to an auger.

### **Modify scale to fit existing foundation –**

A great option for a customer that has an existing scale that needs to be replaced and does not want to make extensive foundation modifications. Fairbanks is capable of modifying the scale length, width, or height to accommodate existing foundations.

### **Special Paint –**

Meet a customer's paint specification that they require on all their industrial equipment

### **Intrinsically Safe Controllers –**

For Hazardous Applications, the scale uses Intrinsically Safe Controllers (2801) in lieu of standard Smart Sectional Controllers (SSC). Be sure to include the Group, Class & Division of your application with your inquiry to the Solutions Group

**Contact the Solutions Group at 800-777-9959 or by entering a solution request on the Nexus platform for pricing and additional information.**