

# TITAN

The new heavyweight champion

- **MAXIMUM CAPACITY**
- **MAXIMUM PERFORMANCE**

## Above Ground, Steel Deck Truck Scales



**Best Built Truck Scales on Earth!**



**INTALOGIX**  
TECHNOLOGY

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**Industry's new HEAVYWEIGHT CHAMPION...  
TITAN TRUCK SCALES!**



# TITAN

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## Ultimate Aboveground, Steel Deck Truck Scales

What sets Fairbanks' Titan Steel Deck Truck Scales apart from the competition? Just about everything.

In head-to-head comparisons, the Titan ranks number one in Gross Weight Capacity, Load Cell Capacity, Deck Plate Thickness, I-beam construction, CLC Rating and sheer Steel Weight.

Fairbanks innovative Rocker Column design prevents weighing errors caused by off-center loading and eliminates the need for grout pockets. It also handles the shocks and jolts caused by trucks driving on and off the platform — so results are never compromised.

**100K Capacity**

## Unique Features (Standard on every Titan)

- Intalogix Technology.
- 3/8" Deck Plate thickness.
- Open Bottom design.
- Encapsulated circuit boards.
- Incredible Steel Weight — 70' by 10' Titan Scale has 33,000 lbs of steel in the modules alone.
- Stainless Steel sheathing on all load cell cabling.
- Load Cell has "true" hermetic seal.
- Fast, easy load cell access.

## Stainless Steel Hermetically sealed Rocker Column

## LOAD CELL Rock Solid Features

(Standard on every Titan Load Cell)

Load cells are electrochemically polished to eliminate the corrosive effects of harsh, wet environments.

100K Capacity is the industry's ultimate in load cell performance with 300% overload protection.

Stainless Steel Sheathing offers Load Cell cable protection from rodent damage and natural wear and tare.

A true Hermetic Seal makes the Titan Load Cell impervious to moisture intrusion. NEMA 6P (IP68) rating

## Top Performance

- Up to 300,000 lb Gross Capacity.
- 100,000 lb capacity Load Cells.
- 100,000 lb CLC/DTAC.
- Deflection less than 1/1600 under legal highway loads.
- NTEP certified to widths of 14 feet. Certificate of Conformance #96-089A3.

## Best Value

- More standard features than competing models.
- Backed by available 5-year warranty.



COC #97-078



Glass to Metal Header for "true" hermetic seal at cable entry area.

### LOAD CELL SPECIFICATIONS

Height	6"
Capacity	100K
Resistance	1000 Ohms
Output	2mV/V
Cable Length	15 feet
Combined Error (FSO)	<=0.02%
Zero Balance (FSO)	1.0%
Excitation	5 to 15 VDC

# Maximum Capacity

Designed to standards above and beyond the competition's

The Titan Steel Deck is constructed from multiple 12" and 16" Structural Steel I-beams. These massive I-beams, coupled with the thickest available deck plate, produce an extremely ridged weighbridge that resists dimpling or rolling due to extreme or redundant loading.

The deflection standards for the Titan exceed AAR and ASHTO specifications for federal bridge construction.

## Titan Series Portable Vehicle Scales

Available in sizes specifically for mobile operations, the Titan Series Portable Vehicle Scales are made for easy assembly and removal.



The Titan PV has all the features of the Titan Series Truck Scales, plus the ability to be removed from its sub-frame and installed in a permanent foundation.

Ask about Fairbanks Exclusive "PV on the Spot" program. This program allows you to upgrade your existing scale with a new Titan Series Truck Scale and never have any down time.

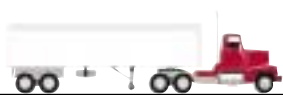
### Applications:

Asphalt plants  
Aggregate yards  
Coal mines  
Concrete plants  
Dairy farms  
Farmer's markets  
Grain plants  
Landfills  
Ports of Entry  
Timber Mills  
Transfer stations  
Freight carriers  
...and most high volume applications!

100K Rocker Column Load Cell; standard Titan feature.



Industry's only encapsulated circuit boards using materials tried and tested in chemical and aerospace applications.



## TITAN TRUCK SCALE USAGE RECOMMENDATIONS

TRUCK DTA WEIGHT		100K DTA	80K DTA	60K DTA	50K DTA	40K DTA	34K DTA*
Assuming 12K on Steering	Total Truck Weight (lbs)	212,000	172,000	132,000	112,000	92,000	80,000
	Trucks Per Day	25	100	200	300	600	1,000
	Maximum Deflection	1/550	1/700	1/900	1/1100	1/1400	1/1600

Note: As truck load or DTA weight decreases, recommended daily truck weightings increase.

\*Legal for highway travel

Recommended maximum number of trucks per day at specified Dual Tandem Axle weights.

Following these Guidelines, the Titan Truck Scale is Designed for a 20 Year Life!

# & Performance!



Compare our 3/8" deck plate to competing scales — ours is the thickest in the industry!

NTEP Certified to widths of 14 feet!



Low profile Rub Rail prohibits damage to truck tires and lug nuts.



Sectional controller optically isolates load cells, providing best surge and lightning protection available.



The Titan is constructed with massive 16" and 12" structural steel I-beams.

## TITAN TRUCK SCALE SPECIFICATIONS

LENGTH	FULL SCALE CAPACITY	MODULES	LOAD CELLS	CLC/DTAC
30	150,000 lbs	1	4	100,000 lbs
35	150,000 lbs	1	4	100,000 lbs
60	250,000 lbs	2	6	100,000 lbs
70	250,000 lbs	2	6	100,000 lbs
80	300,000 lbs	3	8	100,000 lbs
90	300,000 lbs	3	8	100,000 lbs
105	300,000 lbs	3	8	100,000 lbs



# Your Titan is protected from the unexpected!

*Intalogix is the most advanced load cell protection...ever.*

**W**hen it comes to lightning strikes or electrical surges, Fairbanks has your Titan covered with the power of our exclusive load cell protection technology — Intalogix. You never need to worry about electrical damage because Intalogix is on the job, 24-hours a day, seven days a week, monitoring your system to instantly detect and alert your operators to any deviation in performance. Relax, and let the power of Intalogix do the worrying for you.



# Smart Open Bottom Design...

The natural way to keep your scale dry and prevent corrosion.



**F**airbanks has been building, testing and monitoring the scales we sell for 175 years. Our R&D engineering teams are constantly exploring new design and manufacturing processes as part of our ongoing product improvement policy. The continual research has led Fairbanks to its current "Open Bottom" design. Some manufacturers still use a "Sandwich" design, with top and bottom plates that form a chamber or enclosed area where moisture easily collects. This design is compromised by the inherent moisture intrusion and internal corrosion problems not found in the Titan.

Shown in the table below are common sense reasons that Fairbanks utilizes the Open Bottom design in the Titan Steel Deck Truck Scale.

TITAN OPEN BOTTOM DESIGN	ENCLOSED (SEALED) DESIGN
Does not allow moisture to be trapped.	Does not allow moisture to escape.
Natural module ventilation.	No ventilation whatsoever.
Eliminates need for watertight seals.	Watertight seals will eventually break.
Allows for easy module inspection.	Enclosed areas impossible to inspect.
Entire module is protected with paint.	Enclosed areas cannot be painted.

# TITAN Above Ground, Steel Deck Truck Scales

The new heavyweight champion



## TITAN SPECIFICATIONS

Deck Dimensions . . . . . Lengths: 27', 30', 35', 60',  
70', 80', 90', 105'  
Widths: 10', 11', 12', 14'

CLC/DTAC . . . . . 100K

Gross Capacities . . . . . 150K to 300K

Sections . . . . . 2 to 4

Modules . . . . . 1 to 3

Module Data:

- Module Design . . . . . Orthotropic
- Module Construction . . . . . USA Structural Steel
- Module Under Structure . . . . . Open Bottom

Deck Plate Thickness . . . . . 3/8"

Options . . . . . Deck runners, Rub Rails,  
Drop Plates, Blow Down  
Plates, 120K CLC, 150K  
Load Cells, 300K Gross  
Capacity, Custom Sizes

Accessories . . . . . Weight Indicators, Report  
& Ticket Printers,  
Unattended Automated  
Systems, Custom  
Software, Traffic Signals,  
Remote Displays

Approval . . . . . NTEP COC #96-089A3

## TITAN ACCESSORIES:



**Remote Terminal**  
with keypad display,  
printer and bar  
code card reader.  
Also available in  
stainless steel.



**Standard Traffic  
light.** Omni-  
directional light  
also available.



**Remote Weight  
Display;**  
available in  
numeric sizes  
of 1.5" and 5.5".

## TITAN OPTIONS:

**Rub Rails** help guide trucks on  
and off the Titan scale. Low profile  
design prohibits damage to truck  
tires and lug nuts.



**Deck Runners** protect the tire path  
of your scale's deck plate. This  
added protection is a favorite  
option for applications that involve  
abrasive materials such as sand,  
limestone and gravel.

**Leasing Fairlease** — Ask  
your Fairbanks  
representative about our truck  
scale leasing program!

Your Fairbanks Scales Authorized Representative is:

Call toll-free for the representative nearest you:

**(800) 451-4107**

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