

FAIRBANKS[®]

S C A L E S



TRIDENT

PRECAST CONCRETE TRUCK SCALES

Featuring an engineered concrete deck that is poured and cured in factory-controlled conditions to eliminate porosity and cracking, and produce incredible compressive strength.

25 YEAR
LOAD CELL
WARRANTY*



Rocker column load cells

have true hermetic seals that prevent moisture intrusion and are electrochemically polished to retard corrosion in the most caustic environments.

TRIDENT



Precast Concrete Truck Scale



INTALOGIX[™] TECHNOLOGY

This innovative technology isolates and guards your scale investment against power surges and electrical strikes. Intalogix also enables continuous load cell diagnostics.

FAIRBANKS

MADE IN THE USA

TRIDENT TRUCK SCALE 3 KEY BENEFITS

1 1-DAY INSTALLATION

While concrete deck scales provide the most robust long-term weighing solution, time frame requirements can prohibit the use of field-pour concrete due to lengthy curing times. To bridge this gap, Fairbanks developed the Trident Precast Concrete Scale.

- All the benefits of concrete
- Same day installation

2 NO-RISK CONCRETE

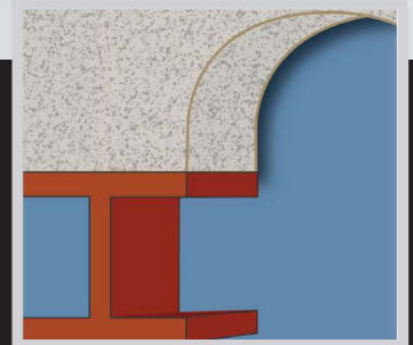
Not all concrete is created equally. The Trident's TensileCore Engineered Concrete system and controlled finishing techniques eliminate the traditional enemies of concrete in truck scale applications.

- TensileCore fibers increase tensile strength
- Silicate Fume virtually eliminates porosity
- Factory steam cure results in traceable, ultimate, 8,000 psi compressive strength
- ACI concrete finishing methods prevent concrete failures

3 LONGER-LASTING SCALE

The Trident sets a new standard for scale longevity by coupling its advanced engineered concrete system with proven structural features.

- Superior orthotropic bridge structure
- Structural arches effectively handle load distribution and reinforce deck integrity
- Open Bottom design eliminates moisture pooling and potential for corrosion
- A two-component, acrylic urethane, industrial coating system stands up to harsh environments





Encapsulated circuit boards

provide superior protection against moisture damage. This same material has been tested and used in mission critical aerospace applications.

Smart sectional controllers

with encapsulated circuit boards use Fairbanks exclusive Intalogix Technology to produce a digital signal a million times stronger than analog.

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FACTORY-CONTROLLED PRECAST CONCRETE SCALE

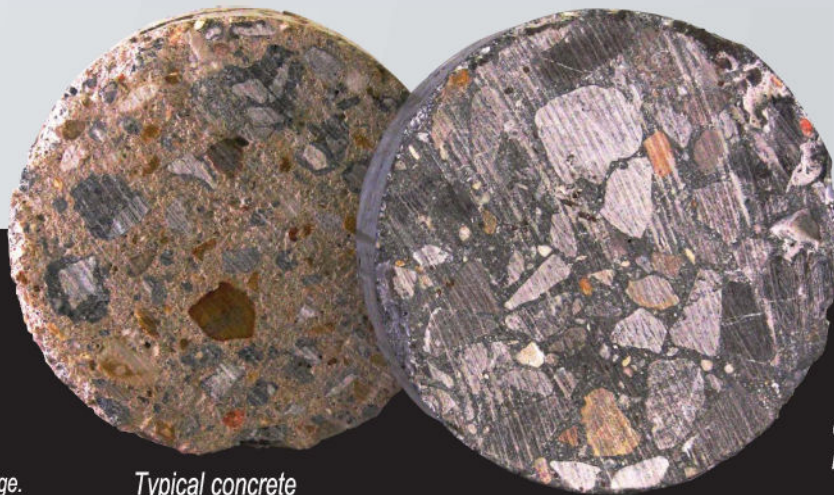


The Trident Precast is built and tested to ASTM standards in a factory-controlled environment, then shipped to your location ready for install.

TensileCore Engineered Concrete — Secrets to its superior strength and longevity

1. To boost flexural strength, TensileCore steel fibers are added to the Trident's precast mix. These fibers bond the concrete, control potential for cracking and eliminate failures.

2. Using standards established by the American Concrete Institute (ACI), Fairbanks implements consistent concrete finishing practices. These practices include proper mix vibration to prevent blistering and an integrated crown that promotes adequate water drainage.



Typical concrete

TensileCore Engineered Concrete

3. Steam curing under ideal environmental conditions ensures the Trident's TensileCore Engineered Concrete system eliminates risks associated with typical concrete.

4. The Microsilica Fume additive in Fairbanks' TensileCore Engineered Concrete fills the voids typically found in standard concrete mixtures. This additive helps create a much denser concrete that repels water absorption and prohibits corrosion and freeze/thaw failures.

TRIDENT

PRECAST CONCRETE TRUCK SCALES

Weighing Solutions for the World Since 1830

Fairbanks.com

SPECIFICATIONS

Capacities.....	50 ton to 140 ton
CLC	80k
Platform sizes	
Lengths.....	10' to 125'
Widths	10' and 11'
Minimum division size	10 lbs
Sections	2 to 7
Modules	1 to 6
Module data:	
Design	Composite steel with TensileCore Engineered Concrete
Construction.....	Structural I-beams with factory-poured ASTM traceable, ultimate 8,000 psi compressive strength concrete
Under structure	Open bottom
Nominal deck thickness	4"
Cover plates.....	No
Checking.....	Bumper
Approvals	NTEP CC# 96-089, MC# AM-4949
Load cell:	
Height.....	5.5"
Load cell material.....	Stainless steel, 17-4 PH (1.4548)
Load cell capacity.....	66,000 lbs
Overload capacity	300%
Rating.....	IP69K (NEMA 6P)
Rated output (=RO)	$2 \pm 0.1\% \text{ mV/V}$
Excitation voltage.....	5...15 V
Zero balance	$\leq \pm 5\% \text{ RO}$
Input resistance	$1,150 \pm 50 \Omega$
Output resistance.....	$1,000 \pm 2 \Omega$
Insulation resistance	$\geq 5,000 \text{ M}\Omega$
Ultimate load	$300 \% E_{\text{max}}$
Load cell resistance	1,000 ohms
Load cell output.....	2.0 mV/V
Load cell cable	15' with stainless steel sheathing
Sealing.....	Complete hermetic sealing, cable entry sealed with glass-to-metal header
Approval	NTEP CC #97-078

ACCESSORIES

Scale Instruments



Traffic Signals



Custom software



Remote Displays



Ticket printers



Driver Assist Terminals



OPTIONS

Custom sizes

Intrinsically safe electronics

Rub rails

Dump through deck

Load cell riser plates

Gide post kits

Dress plates

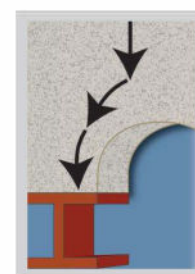
Coal Tar undercoating

Manholes (square)

Trident truck scale utilizes time-tested structural arch to achieve super deck strength

The structural arch has been effectively used to carry load and span open spaces since ancient times and was first systematically used during the Roman Empire. Aqueducts, buildings and bridges constructed by the Romans, as far back as 312 BC, remain standing today. Proof of structural arch durability and effectiveness is seen in modern construction as well. Examples are all around us — from road and highway bridges, to stadiums and landmarks.

The time-tested structural arch continues to be the most efficient engineering choice for supporting gravity loads.



The Trident's arch design is supported by massive steel I-beams.

Your Fairbanks Scales Authorized Representative is:

