Portable Truck Scale Bid

MAIL SEALED BIDS TO: 678 W 18th St Merced CA 95340

CITY OF MERCED PURCHASING DEPARTMENT

purchasing@cityofmerced.org

PARCEL POST OR HAND **DELIVER BIDS TO:** 2525 "O" ST MERCED CA 95340

BID FORM

QUOTE HEREON YOUR LOWEST PRICE F.O.B. MERCED (INCLUDING BUT NOT LIMITED TO DISCOUNTS, REBATES, REGISTRATION AND OTHER FEES IN UNIT PRICE) FOR THE FOLLOWING EQUIPMENT, MATERIALS, SUPPLIES OR SERVICES. NO ALLOWANCE FOR FREIGHT, CARTAGE, PACKING, OR POSTAGE UNLESS SPECIFIED ON THIS BID. WHERE BRAND OR MAKE IS SPECIFIED, SIMILAR OR EQUAL WILL BE CONSIDERED.

SEALED BIDS DUE:

Tuesday, August 20th, 2024 at 2:00 P.M.

DEPT: Land Application

REQUISITION NO: 08202024

QTY	UOM	DESCRIPTION	PRICING			
1 Ea	Each	Fully self-contained portable truck scale 70'x11' with 100,000 lbs. weighing capacity per specifications in Exhibit A & any addenda.	UNIT PRICE	\$129674.05		
			Labor	9850.00		
		Notice: Submit one original bid and one copy	Freight	9100.00		
			SALES TAX (8.25%)	10698.11		
			TOTAL AMOUNT	\$159322.16		

* BID OPENING WILL BE HELD IN THE PURCHASING OFFICE CONFERENCE ROOM AT 2525 "O" STREET, MERCED, CA *

We have stated hereon the prices at which we will furnish and deliver the equipment,	COMPANY: Best Weigh Scale Co Inc
materials, supplies or services as specified above.	BY: Evan Bolding
	TITLE: Southern Region Systems Consultant
Delivery and installation will be made in70days after receipt of order (A.R.O.), except as otherwise indicated.	SIGNATURE:
(A.N.O.), except as otherwise indicated.	DATE: 8/12/2024
	PHONE: 559-647-4216
Note: City reserves the right to reject any and or all bids, split the bid award, or to	EMAIL: evan.bestweigh@gmail.com
accept the bid that best serves the public purpose, even though it may not be the	PAYMENT TERMS: (Net 10, 30, 45)
lowest.	PHONE: 559-647-4216 d, or to EMAIL: evan.bestweigh@gmail.com
	EMAIL: evan.bestweigh@gmail.com PAYMENT TERMS: (Net 10, 30, 45)

NOTICE: ALL BIDS MUST BE SIGNED

End of Exhibit A

3 **Equipment Bids** City of Merced

19745 South I Dr. Tulare, CA 93274 (559) 687-3130

Best Weigh Scale Co., Inc.

3813 Mesa Grande St. Bakersfield, CA 93304 (559) 398-9686



2728 N Sunnyside Ave #101 Fresno, CA 93727 Telephone (559)291-2592 / Fax (559) 291-8056 Toll Free: 1-855-722-5320 www.bestweigh.com



Date

8/12/2024 PO #

JWO#

Quote # EB-081224-1

Proposal To:

City of Merced 2525 O Street Merced, Ca. 95340 Portable Truck Scale Bid Requisition No 08202024 Contact: Purchasing Department

Land Application Department

Phone Number: Cell:

Fax Number:

E-mail: purchasing@cityofmerced.org

WE ARE PLEASED TO QUOTE THE FOLLOWING EQUIPMENT:

No. of		Model					
Units	Manufact.	No.			Equip. Price		
1 1 2 1 1 1 1 1	Cardinal Cardinal Cardinal Cardinal Cardinal Fairbanks	1003262.0 SR-1003262- RMP-Armor-11 225D	Portable Armor Truck Scale with Sma 70'x11' 135 ton Capacity with 50 ton Construction with 3/8" Steel Deck. 75k Stainless Steel load cells with braided 4.5" Safety Yellow Side Rails 8" above 11'W x 20'L 50t CLC Checkered Steel Navigator SS IP66 Digital Interface Incoutbound, GTN and ID Stored Tares Digital Load Cell Home Run Cable 10 Epson TM-U295 Ticket Printer with cather trucking Co with Best Weigh Scale Set scale on customers level and firm Install weighing equipment in customers customers provided 110v power. Calibrat	rtcell Digital Technology CLC. HD 12" I Beam SCBD Smartcell Digital wiring rodent protection. e scale deck Ramps @ 17563.81 ea dicator with Inbound weighing. 0' able. ale provided crane. packed gravel surface. scale house and terminate to e with Heavy Capacity Test	\$7,267.00 \$35,127.62 \$1,734.06 \$228.31 \$488.81 \$9,850.00		
Labor	& Installatio	on Charges:			\$7,267.00 \$35,127.62 \$1,734.06 \$228.31 \$488.81 \$9,850.00 to to the second of the secon		
		A					
			autra a normit				
	Customer to	o turnish ali elec	cincal and conduit.				
			Contractors Lic #827797				
Ouete Va	did For	60 Days					
Cardinal 1003262.0 Portable Armor Truck Scale with Smartcell Digital Technology 70'x11' 135 ton Capacity with 50 ton CLC. HD 12' I Beam construction with 3/8" Steel Deck. 75k SCBD Smartcell Digital Stainless Steel load cells with braided wiring rodent protection. 1							
	1 Cardinal 1003262.0 1 Cardinal SR-1003262.0 2 Cardinal RMP-Armor- 225D 1 Cardinal 8581-0091- 1 Fairbanks 24741.0 Labor & Installation Charges: Note: Please Read All Notation Portable Scale does not Customer to furnish all e Quote Valid For: 60 Days Shipment: 10 Weeks F.O.B: Factory						
			D. L O Letter Net 22				
Terms of	Payment:	50% Deposit, I	Balance on Completion Net 30	Total Price	\$159,322.10		

Accepted By:

Submitted By: Evan Bolding/

Date: 8/12/2024 559-687-3130 Office

Email: evan.bestweigh@gmail.com

Title:

Date:

Portable Truck Scale Bid

MAIL SEALED BIDS TO: 678 W 18th St Merced CA 95340 CITY OF MERCED
PURCHASING DEPARTMENT
purchasing@cityofmerced.org

BID FORM

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materials, supplies or services as specified above.	BY: Evan Bolding
	TITLE: Southern Region Systems Consultant
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	PHONE: 559-647-4216
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accept the bid that best serves the public purpose, even though it may not be the	PAYMENT TERMS: (Net 10, 30, 45)
lowest.	50% Deposit Balance on Completion Net 30

NOTICE: ALL BIDS MUST BE SIGNED

End of Exhibit A

City of Merced Equipment Bids 3

19745 South I Dr. Tulare, CA 93274 (559) 687-3130

Best Weigh Scale Co., Inc.

3813 Mesa Grande St. Bakersfield, CA 93304 (559) 398-9686



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City of Merced 2525 O Street Merced, Ca. 95340 Portable Truck Scale Bid Requisition No 08202024 Contact: Purchasing Department

Land Application Department

Phone Number:

Cell:

Fax Number:

E-mail: purchasing@cityofmerced.org

WE ARE PLEASED TO QUOTE THE FOLLOWING EQUIPMENT:

No. of									
<u>Units</u>	Manufact.	<u>No.</u>	Type of Equipm		Equip. Price \$84,828.25				
1 1 2 1 1	Cardinal Cardinal Cardinal Cardinal Cardinal Fairbanks	1003262.0 SR-1003262- RMP-Armor-11 225D 8581-0091-28 24741.0	70'x11' 135 ton Capacity with 50 ton CLC. HD 12" I Beam construction with 3/8" Steel Deck. 75k SCBD Smartcell Digital Stainless Steel load cells with braided wiring rodent protection. 4.5" Safety Yellow Side Rails 8" above scale deck 11'W x 20'L 50t CLC Checkered Steel Ramps @ 17563.81 ea Navigator SS IP66 Digital Interface Indicator with Inbound Outbound, GTN and ID Stored Tares weighing. 1-28 1-28 1-29 1-29 1-29 1-29 1-29 1-29 1-29 1-29						
			Set scale on customers level and firm packed gravel surface. Install weighing equipment in customers scale house and terminate to customers provided 110v power. Calibrate with Heavy Capacity Test Truck and report to Merced County Weights and Measures.						
Labor	Fairbanks 24741.0 Epson TM-U295 Ticket Printer with cable. \$488.6 \$50.00 Labor Meet trucking Co with Best Weigh Scale provided crane. Set scale on customers level and firm packed gravel surface. Install weighing equipment in customers scale house and terminate to customers provided 110v power. Calibrate with Heavy Capacity Test Truck and report to Merced County Weights and Measures. Labor & Installation Charges: Installation Charges:								
N	D1	Outbound, GTN and ID Stored Tares weighing. Digital Load Cell Home Run Cable 100' Epson TM-U295 Ticket Printer with cable. Labor Meet trucking Co with Best Weigh Scale provided crane. Set scale on customers level and firm packed gravel surface. Install weighing equipment in customers scale house and terminate to customers provided 110v power. Calibrate with Heavy Capacity Test Truck and report to Merced County Weights and Measures. All Notations. All Notations. Alle does not require a permit. furnish all electrical and conduit. Contractors Lic #827797 Total Equipment Price \$129,674.05							
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					1				
	Customer to	Juliusi all elec	circai and conduit.						
			Contractors Lic #827797		1				
011/-	CJ Fan	CO Davis							
Quote Va	ilia For:	ou Days		Total Installation & Labor					
Shipment	t:	10 Weeks		(Prepay & Add) Freight	\$9,100.00				
F.O.B:	_	Factory	0 - 1-E N-4-00	Sales Tax					
Terms of	Payment:	50% Deposit, I	Balance on Completion Net 30	Total Price	\$159,322.16				

Accepted By:

Submitted By: Evan Bolding/

Date: 8/12/2024

559-687-3130 Office

Email: evan.bestweigh@gmail.com

Title:

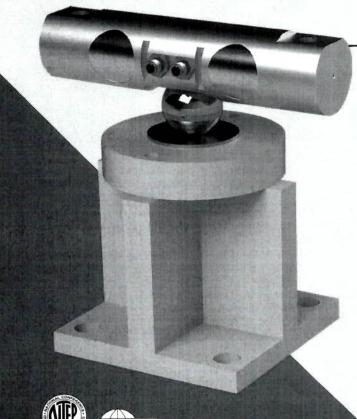
Date:



SMARTCELL® DIGITAL LOAD CELLS

SCBD

DIGITAL LOAD CELLS



- Double-ended shear beam digital load cells
- High-capacity vehicle weighing
- Self-checking capabilities allow the scale to operate without bumper bolts or checkrods
- Cloud-based monitoring convenience
- Stainless steel IP69K protection rating
- No junction box connections necessary



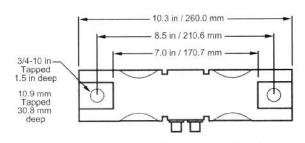


SMARTCELL.

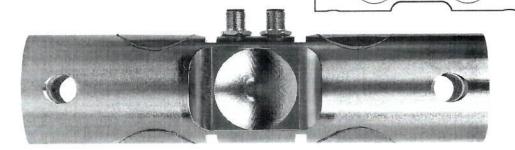
SCBD











SPECIFICATIONS SCBD75 34,000 kg / 75,000 lb Capacity SCBD100 45,000 kg / 100,000 lb Cell Type Digital double-ended shear beam Completely encapsulated and filled with a potting compound to fill all internal voids and prevent any Potting potential for moisture entering the load cell and causing premature failure Rated Output Cardinal digital output Protection Class IP69K rated Connectors 5-Pin, M12 Male, A-Coding Safe Load 150% rated capacity -10°C to +60°C / +14°F to +140°F Temperature Range (OIML and NTEP certified up to +40°C/+104°F) NTEP Certification 16-088A1 OIML Certification R60/2000-GB1-17.17 Country of Origin USA Accuracy Class IIIL Construction Stainless steel iSite remote diagnostic monitoring software with Includes e-mail and text alerts Mounts into Cardinal axis® brand ball receiver Mounting cup load cell stand

Cardinal Scale Manufacturing Co.

102 E. Daugherty, Webb City, MO 64870 USA Ph: 417-673-4631 or 800-441-4237 • Fax: 417-673-2153 www.CardinalScale.com Cardinal Scale reserves the right to improve, enhance, or modify features and specifications without prior notice.

SOLD BY:

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KEY FEATURES

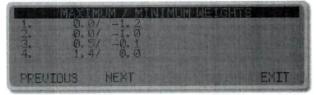
- Supports up to 32 digital load cells Providing wide flexibility for suitable applications
- Homerun cable uses standard cable and can be 300 meters in length – Enables flexibility with location of indicator
- Standard (load cell to load cell) cable lengths 15 ft / 4.5 m, 27 ft / 8.2 m, and 37 ft / 11.2 m cable lengths available
- Ability to expand solution Solution can adapt
 as your project develops
- Oclear error messages Reduce time to diagnose and rectify issues reduces downtime
- DLC card is compatible with existing 225 or 825 series indicators Ability to retrofit analog load cell solutions already in the market place

ON-SCREEN INDICATOR DIAGNOSTIC MENU EASES TROUBLESHOOTING

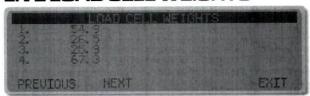


Cardinal Scale's 225D
Navigator and 825D
Spectrum indicators provide
onscreen diagnostics for
Cardinal digital load cells
enabling scale technicians
to see real-time errors such
as unresponsive load cells,
damaged analog sections,
invalid set-up parameters,
and it can also assist with
board replacements.

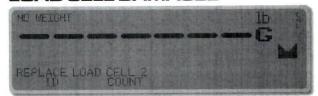
MINIMUM AND MAXIMUM WEIGHTS (This can be zeroed as needed)



LIVE LOAD CELL WEIGHTS



LOAD CELL DAMAGED



Cardinal Scale reserves the right to improve, enhance, or modify features and specifications without prior notice.

SOLD BY:

Cardinal Scale Manufacturing Co.
203 E. Daugherty, Webb City, MO 64870 USA
Pb: 417-673-4631 or 800-441-4237 • Fax: 417-673-2153
www.CardinalScale.com

Mobile: m.cardinalscale.com

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TOP 10 REASONS WHY THE CARDINAL ARMOR® TOP PORTABLING SCAL

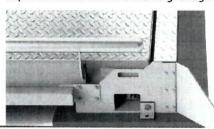
MODULAR PLATFORM DESIGN

Cardinal Scale's versatile weighbridge design is modular with expandable bulkheads, so you may vary sizes as your weighing needs change.



OPTIONAL WING-KIT AVAILABLE

Allows fill material to be used for approach ramps and prevents backfill into the scale. Left and right side bolt-on wings and required hardware for one end weighbridge.



STANDARD

STRAP KIT COMES

The Cardinal ARMOR® Portable truck scale is the easiest to load and off load for optimal movement from site to site. Free strap kit included with each order.

OPTIONAL 26-in DOUBLE-PIPE GUIDE RAILS

The optional SRXD series 26-inch-high, double-pipe guide rails provide an extra vertical row of guide



NO POWER AT THE SCALE

Gets you up and running fast! The ARMOR's digital SmartCell® system doesn't require any junction boxes, and the digital load cells plug and play with each other.

SIMPLY PLUG IN THE HOME RUN CABLE



Setup is easy, because the scale is driven by the Cardinal 225D Navigator indicator with inbound/ outbound weighing. The 225D's ID storage allows you to easily acquire vehicle net weights.

AXIS® FRICTIONLESS CENTERING SYSTEM



The axis' durable ball and cup system utilizes gravity to restrain deck movement and vibration; in fact, the heavier the load is, the better.

WATERPROOF STAINLESS STEEL LOAD CELLS

The IP69K-rated, 75,000-lb digital SmartCells are completely encapsulated and filled with a potting compound to fill all internal voids and prevent any potential for moisture





OPTIONAL USB **EXTERNAL FLASH DRIVE**

The low-cost 2XX-USBA option card for the 225D allows you to easily track all weight transactions daily in remote locations and offload data quickly with virtually unlimited transaction storage.

LEGAL FOR TRADE

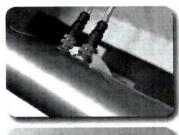


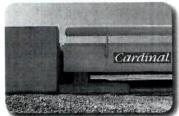
The ARMOR® Portable truck scale is NTEP and Measurement Canada certified legal for trade.

Cardinal



SOURTAGES

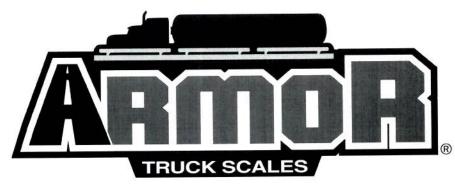












SMARTCELL® DIGITAL LOAD CELLS



SMARTCELL® DIGITAL LOAD CELLS

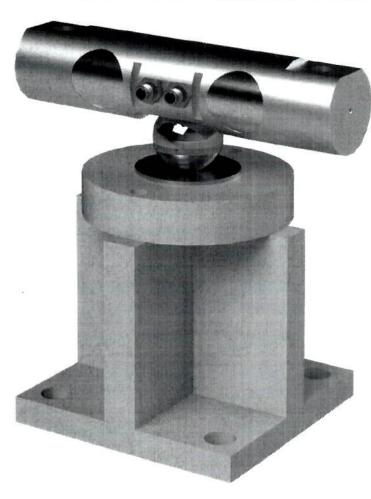


TABLE OF CONTENTS PAGE axis® Load Cell Stands and SmartCell® **Digital Load Cells** 2 ARMOR® Weighbridge Advantages -**FEA Analysis Comparisons** 10 Advantages of Digital Load Cells iSite Remote Diagnostics Monitoring 11 13 NEST All-in-One Scale Diagnostic Toolkit Tipping the Scales 15 18 Digital Load Cell Cable Chart



SMARTCELL® DIGITAL LOAD CELLS

Cardinal Scale's SmartCell® stainless steel digital load cells are the optimal solution in advanced load cell technology. Each IP69K-rated waterproof load cell is completely encapsulated and filled with a potting compound that fills all internal voids and prevents any potential for moisture entering the load cell and causing premature failure. The SmartCell's proven technology is internally factory calibrated at 10 points to achieve linear output. Messy, time-consuming wiring is no longer necessary – cables connect to the cell through metal braided rodent-proof cables. Load cells are daisy-chain linked directly to one another, yielding a more convenient, user-friendly system.

SmartCell® digital technology eliminates the need for a junction box and time-consuming wiring termination work. In fact, for a standard 70-ft-long vehicle scale, 92 wiring terminations and 14 jumper settings are completely eliminated, and sense leads are also no longer required since variations in system voltage will not impact the load cell. Painstakinglylong troubleshooting can be greatly reduced since most errors can be detected via the built-in diagnostic system, and load cell calibration is much simpler and easier.



FRICTIONLESS CENTERING SYSTEM

AXIS® FRICTIONLESS CENTERING SYSTEM

Cardinal Scale's axis® Frictionless Centering System is the next generation frontier for load-centering technology. The focal point of this technology is gravity-driven dynamic centering. Gone are the bumper bolts, flexures, and check rods used to restrict movement in earlier models. Cardinal Scale's unique, durable passive checking systems utilize gravity to restrain deck movement and vibration; in fact, the heavier the load is, the better. Since the system is constantly seeking its stable equilibrium point, it will absorb movements from the truck moving on the weighbridge and bring the weighbridge to rest more quickly and smoothly.

The load cell and components have been moved above the bottom of the deck, eliminating build-up failures due to corrosion, sediment, and filth. The wire tray above the cell houses 15 to 20 feet of wire comfortably. The load cell and integral wiring are now in a clean and simple compartment where they can be easily accessed in close proximity.

ARMOR® Weighbridge Advantages

TRUCK SCALE ENGINEERING FEA ANALYSIS COMPARISON

Cardinal Scale's engineering and management team extensively studied every truck scale on the market when developing the ARMOR® truck scale weighbridge. The design team researched key weaknesses in competitor's truck scales that led to breakages and structural integrity issues over the lifespan of the scale and looked for ways to improve upon every facet in a truck scale design.

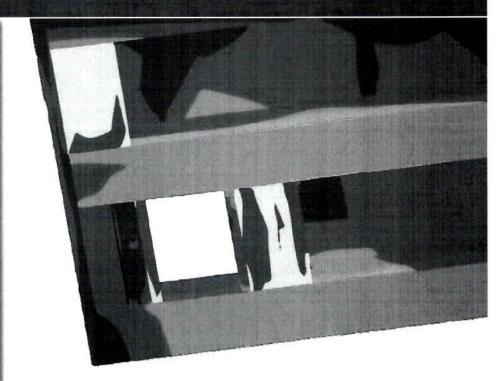
The impressive results are shown in the ARMOR® truck scale weighbridge. The following FEA analysis renderings will demonstrate important areas where Cardinal Scale's ARMOR® weighbridge is superior to every other truck scale on the market due to vastly improved design elements and high-end construction techniques employed during manufacturing.

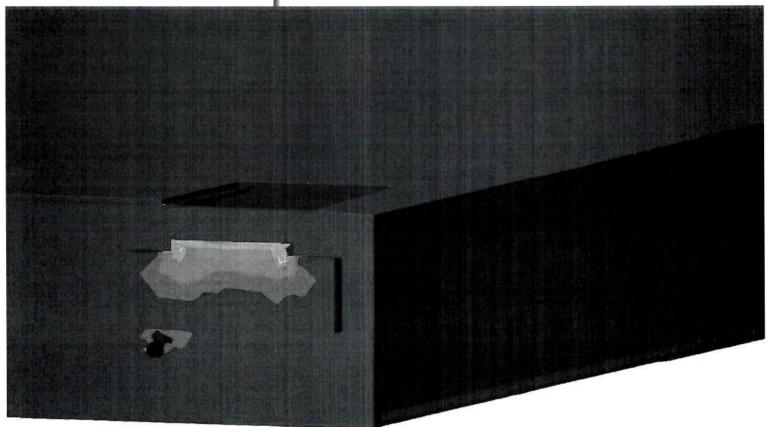


LOAD CELL FORCE TRANSMISSION

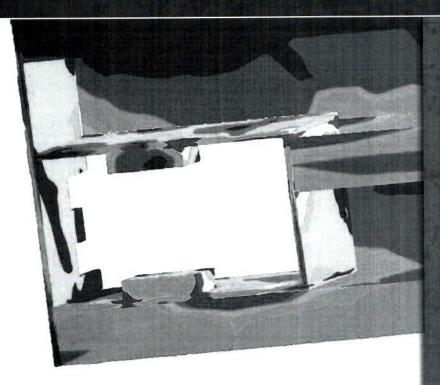
CARDINAL SCALE'S ARMOR® WEIGHBRIDGE ADVANTAGES:

- The weighbridge connecting support block is welded to the one-inch-thick endplate and is in direct line with the I-beams and load cell support blocks which decreases torsion and stress points.
- The endplate has no cuts in it, so no stress concentrations are created.



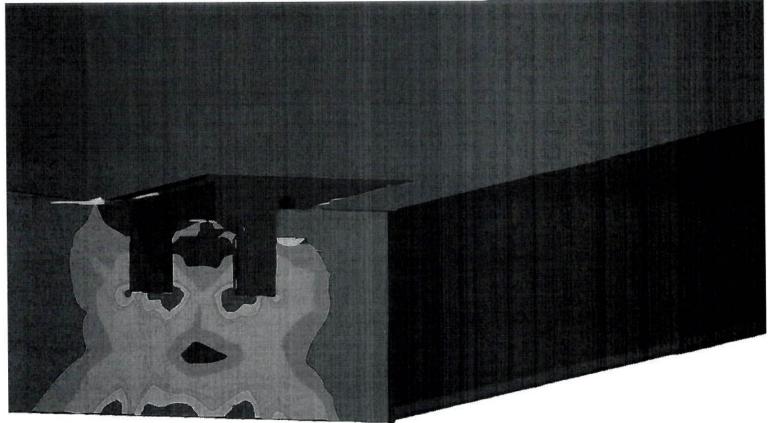


LOAD CELL FORCE TRANSMISSION



COMPETITOR DISADVANTAGES:

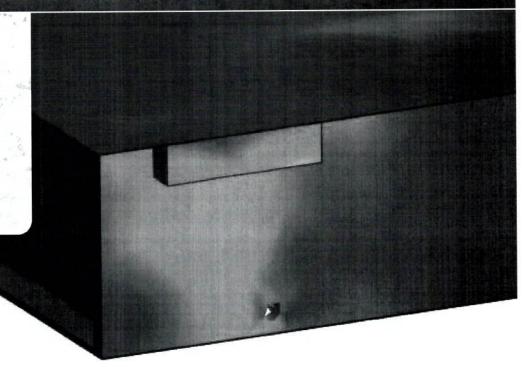
- Support block is welded onto the endplate with large cutouts causing weakening of the endplate and stress concentrations in the sharp corners of the cutout and high stress areas under the cut outs.
- Load cell support blocks are not inline with the bridge connector block, causing torsion and shear forces in the head plate.
- Cantilevered load cell support blocks cause torsion and shear forces in the head plate.
- Support block design that needs to be bolted together during installation.



HOOK-ON FORCE TRANSMISSION (NON LOAD CELL SIDE)

CARDINAL SCALE'S ARMOR® WEIGHBRIDGE ADVANTAGES:

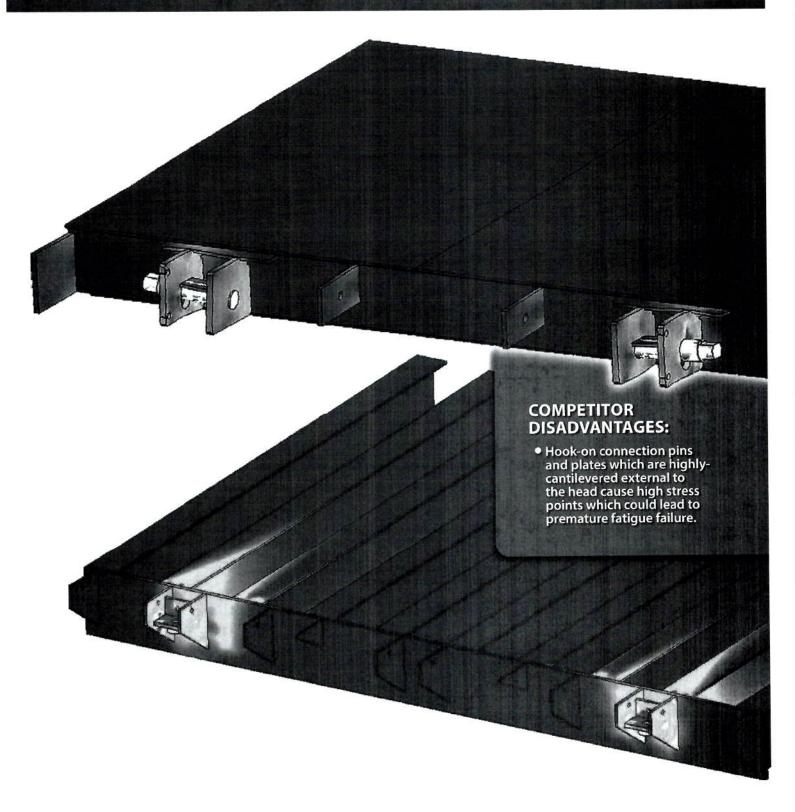
- Receiver cup welded in line with I-beams.
- No torsional force generated as the load is transferred from the I-beams, through the endplate, and to the receiver cup.



COMPETITOR DISADVANTAGES:



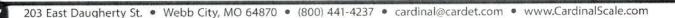
HOOK-ON FORCE TRANSMISSION (NON LOAD CELL SIDE)



BRIDGE DESIGN



 12-inch I-beams with 4 rows of stiffeners provide low material stress levels and significantly reduced deflection and much longer weighbridge lifespan.



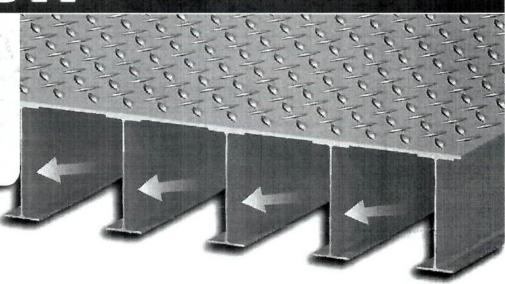
BRIDGE DESIGN

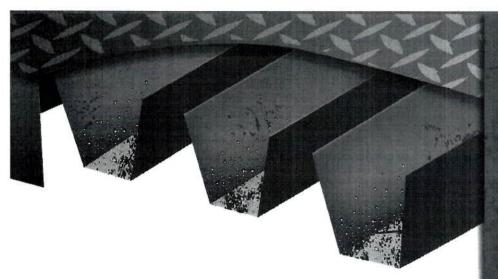
COMPETITOR DISADVANTAGES: 10-inch I-beams cause high stress concentrations and significant deflection, which leads to shorter service life.

AIRFLOW

CARDINAL SCALE'S ARMOR® WEIGHBRIDGE ADVANTAGES:

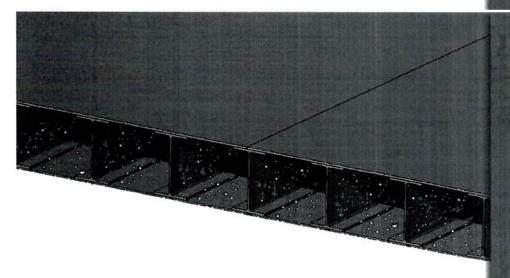
 Wide open bottom throughout the weighbridge prevents moisture build-up which leads to corrosion.





COMPETITOR DISADVANTAGES:

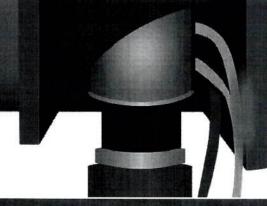
- Orthotropic design traps condensation which promotes corrosion.
- Improperly-executed weld start and stops and poor weld preparation can cause moisture to penetrate into the orthotropic structure and create water accumulation and corrosion.



COMPETITOR DISADVANTAGES:

- Unitized steel deck traps condensation which promotes corrosion.
- Improperly-executed weld start and stops and poor weld preparation can cause moisture to penetrate into the deck cavity and create water accumulation and corrosion.

LOAD CELL CABLES



COMPETITOR DISADVANTAGES:

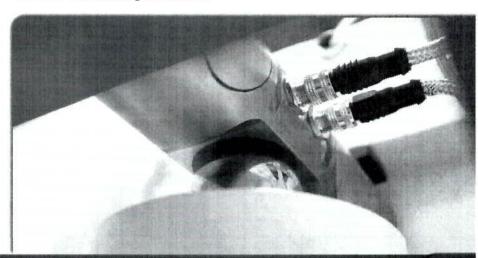
 Wire routing causes wires to rub on the head plate causing wear on the cables and possible premature failure.

ADVANTAGES OF DIGITAL LOAD CELLS

- SmartCell® installation set-up and maintenance is greatly simplified over older analog systems.
- Diagnostics are easy to perform, even for novice technicians new to the scale industry.
- The SmartCell® digital system detects and diagnoses faults and failures more quickly, efficiently, and precisely.
- SmartCell® load cells are daisychained together, greatly easing cable runs.
- Simplified wiring system and no junction box eliminates problems associated with traditional analog load cell systems.

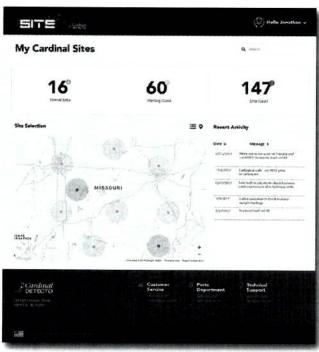
- Repair costs are greatly reduced.
- Changing a load cell in the event of a failure is quick and easy (typically takes under 5 minutes).
- Load cell level diagnostics allow for troubleshooting directly through Cardinal indicators.
- Scale productivity is increased due to expedited diagnosis.
- SmartCell® iSite diagnostic software sends cell failure notifications to scale technicians.
- SmartCell® issues can be diagnosed from a remote location.
- SmartCell® stainless steel cell design ensures longer cell life and is IP69K rated against water.

- SmartCell digital cells are built to be more reliable and accurate in changing environments.
- Costs associated with inspections are greatly reduced.
- SmartCell® load cells offer the same industry-leading lightning protection that is featured in Cardinal weight indicators.
- axis® gravity-driven system eliminates issues associated with traditional checking systems.
- The axis® load cell stand and ball can be switched out in a matter of minutes.



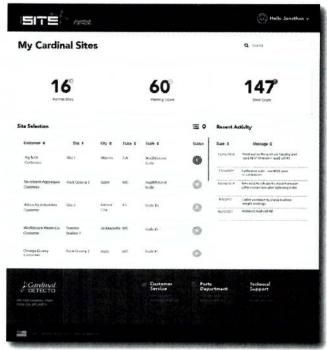


- Cloud-Based Remote Monitoring for Digital Load Cells
- Text or E-mail Auto Alerts for Errors and Warning Events
- Free to Authorized Cardinal Scale Dealers
- Secure Online Dealer Access Interface for Scale Diagnosis
- Connect to the Cloud via Ethernet Network or Cellular Modem
- Quickly Identify Problems Before They Interrupt Weighing
- Scans Indicator, Homerun Cable, Load Cells, and Load Cell Cable for Errors
- iSite utilizes the default web browsing port 80 to post data to the cloud database server, so Cardinal indicators do not access any other ports or protocols that would compromise network devices or security.



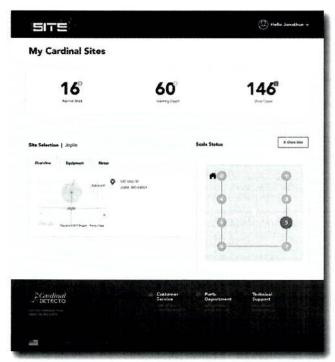
GEOGRAPHIC LOOK-UPS

Once you log into iSite online (isite.cardinalscale.com), you'll have a choice of navigating to your specific digital installations via geographic look-up by map or text-based list view. All of your digital SmartCell® scale installations will be automatically entered into iSite. The maps will automatically indicate any error or warning readings in red. Simply click on the installation site's location to go to a follow-up page for more information.



SITE SELECTION

The iSite home page lets you look up your installations based on a number of different criteria: Customer Name, Purchase Order, Site Name, City, State, Scale Name, etc. Recent Activity is also shown for any technician notes they have entered into iSite or warning readouts.



VEHICLE SCALE DIAGRAM

Real-time digital load cell diagnostics identify problems before they cause inaccurate weighing. When you click on a particular site, a scale diagram will be shown with normally-functioning load cells displayed in green and load cells or cables with errors designated in red. The diagram lets you quickly identify where the issue is located within the scale.



ACCOUNT DETAILS

iSite accounts may be set up for any authorized Cardinal Scale dealer personnel. You may select Metric or Imperial for your readouts and the Time Zone for your location. E-mail and/or text contact info may be changed by contacting Cardinal Technical Support or Customer Service.



SPECIFIC LOAD CELL DATA

If you click on a particular load cell, the following iSite screen will display more detailed load cell diagnostic data, such as date, time, millivolts, weight, calibration, and temperature readings. iSite also provides warnings for home run cable and load cell cable issues.

SECURE DATA TRANSMISSIONS:

iSite utilizes the default web port 80 to issue a POST command to push data to an Amazon Web Services database server using the HTTP protocol. This data is posted to the server utilizing the popular JSON format. Additionally, it uses the same port to issue a GET command to receive the mode (Standard or Diagnostic) and frequency in which the indicator posts data. Cardinal Scale indicators do not utilize any other ports or protocols that would compromise network devices and/or security.







FAST AND POWERFUL TRUCK SCALE DIAGNOSTICS

Cardinal Scale's NEST provides fast, accurate, and ultra-portable truck scale diagnostics. Quickly view individual load cell readings and check the home run cable and weight indicator diagnostics. NEST is compatible with both analog and digital cells. This dual functionality extends to diagnosing load cells, home run cables, and load cell cables of both varieties.

Unique to the weighing industry, NEST provides a service technician the toolkit to see where a scale's potential issues may exist within seconds. Utilizing Cardinal's 225 indicator, you can view up to 12 distinct load cell readings onscreen simultaneously, which allows you to quickly and easily scan for anomalies that need further investigation. NEST allows you to view the diagnostics in your choice of millivolts or pounds. There are three display modes: signals display, minimum-maximum display, and signals minus zero reference display.

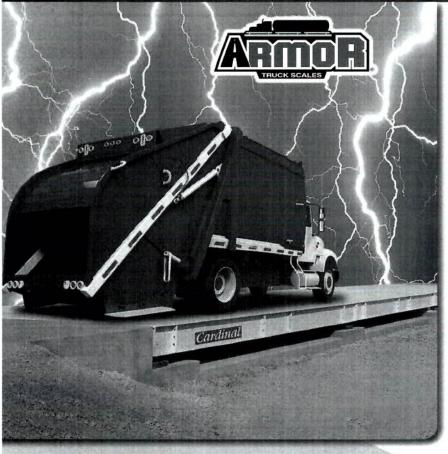
Operating on rechargeable battery power for easy portability, there are just four simple questions during NEST's lightning-fast set-up. It will default at start-up to assume the load cells have a rated capacity of 75,000 pounds and a rated output of 2 mV/V.

The beneficial functionality of NEST may be retrofit to any competitor's truck scale by replacing the existing junction box with a Cardinal section seal trim box, or the circuit board itself on older Cardinal trim boxes.

NEST TOOLKIT INCLUDES:

- Outdoor-grade, rugged black carrying case
- 225NEST indicator with rechargeable battery
- 2 digital load cell cables
- Four cable connectors to home run cable, weight indicator, and load cells 1-6 and 7-12
- Wi-Fi antenna
- AC power cable to recharge battery
- Megohmmeter

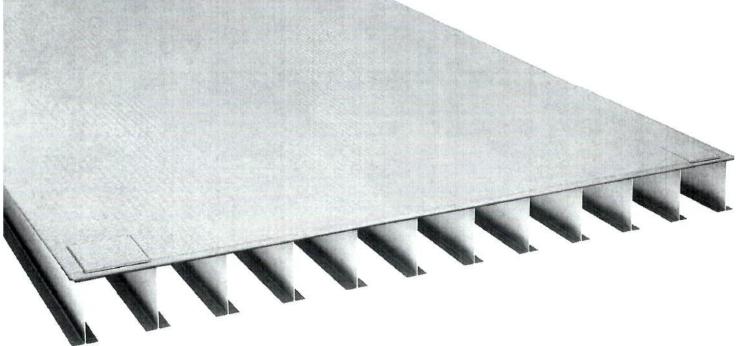
TIPPING THE SCALES



CARDINAL SCALE'S ARMOR® TRUCK SCALE INCREASES BENEFITS FOR VEHICLE WEIGHING

With high truck volume, scale inaccuracy and downtime can result in tens or hundreds of thousands of dollars in profit loss every year. Many facilities have long lines, creating an increased need for a robust, consistent vehicle scale providing minimum downtime and maximum output. Waste facilities generate increased chances for scale malfunctions due to waste contamination and build-up combined with potentially challenging environmental scenarios. Performing inspections can be timely and very costly when diagnosing and correcting mechanical and wiring malfunctions. Cardinal Scale's ARMOR® series truck scales provide answers to these distinct issues.

The design advantages start with the weighbridge. The ARMOR® steel deck now integrates internal I-beam structural upgrades. The weighbridge employs 12-inch-high, 4-inch-wide I-beams supporting the deck. Four rows of welded stiffeners provide additional rigidity and safeguards against I-beam deflection. These advancements now boast the highest CLC in the truck scale industry—50 tons concentrated load capacity!

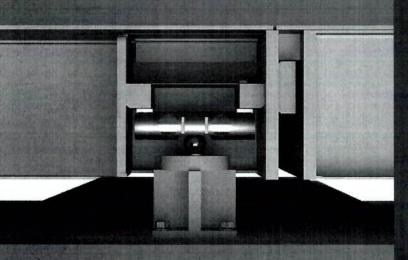


TIPPING THE SCALES

CARDINAL SCALE'S ARMOR® TRUCK SCALE INCREASES BENEFITS FOR VEHICLE WEIGHING

ARMOR® truck scales are built to accept an average daily traffic volume of up to 250 vehicles per day, 365 days per year, for 20 years, assuming that 100% of the vehicles are fully loaded with the equivalent of 80,000 pounds on their dual tandem axle. Those numbers testify that ARMOR® truck scales are built to last a lifetime of weighing use.





Cardinal Scale's advanced SmartCell® digital load cell system eliminates junction boxes and does not require AC power running to the scale. Messy, time-consuming wiring is no longer necessary. The simple cell-to-cable design directly links load cells to one another, providing a user-friendly system that is much easier to maintain and manage. In the unlikely event of a load cell failure, the connectors on the cables make service a very quick affair to swap out load cells. In addition, Cardinal Scale's SmartCell® load cells are mounted near the top of the scale, further removing the exposure to debris and moisture that is prevalent in the solid waste industry. SmartCell® metal braided cables are rodent-proof, giving an extra layer of protection. Exclusively from Cardinal Scale, the axis® load cell stands employ a unique ball and cup system that uses gravity for load centering which eliminates the need for checkrods and bumper bolts.



Cardinal Scale's 225 Navigator indicator can store up to 200 ID's, with the added bonus of storing 200 temporary ID's. Amongst the many items displayed are truck descriptions, material prompts, and tare weights. One-inch high characters are easy to view under any lighting condition. When used with digital truck scales, the 225 indicator has the added benefit of storing calibration on the digital load cell card which allows for ease of recalibration in the event of a component failure. Changing a load cell should require no adjustments to calibration.



TIPPING THE SCALES

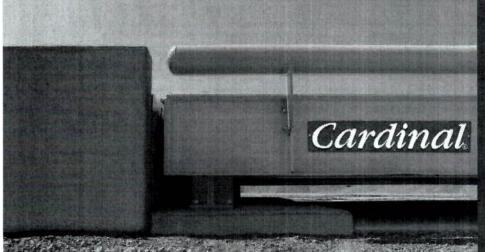


In addition to all of the aforementioned benefits. the ARMOR® truck scale is also available with Guardian® hydraulic load cells that are 100% impervious to water and lightning, two of the most common issues to plague sanitation industry truck scales. Guardian® hydraulic load cells come with a lifetime load cell warranty when used in ARMOR® truck scales. The end result is maximum up-time when the customer considers factors like weather, power surge issues at the site, and water damage, protecting a long-term investment for maximum gain in operations.

CARDINAL SCALE'S ARMOR® TRUCK SCALE INCREASES BENEFITS FOR VEHICLE WEIGHING

Another innovation from Cardinal Scale is the Cloud-based iSite remote monitoring system. This intuitive diagnostics system can be monitored from any location in the world via an online control panel. Any alerts produced by the SmartCell® digital load cells are sent via text or email, sharply reducing time-consuming diagnoses. Once a scale technician receives an alert, they can log into an online control panel dashboard to look up further diagnostic details. Peak performance can be more easily achieved due to expedited information flow and early error detection. Explanatory prompts give technicians helpful tips on where to start when diagnosing an issue. This makes it easy to diagnose a truck scale issue, even for novice technicians.





These combined attributes create great advantages for recycling and solid waste facilities when choosing Cardinal Scale. The ARMOR® truck scale with either SmartCell® digital load cells or Guardian® hydraulic load cells is NTEP and Measurement Canada legal for trade. Less time is spent replacing component parts, diagnosing load cell issues, and dealing with weighbridge structural problems. The cumulative time saved is a great return on investment for the customer and a great savings in service fees. Truly, Cardinal Scale has reinvented the steel deck and advanced scale technology into the next generation.

CABLECHART SMARTCELL BIGITAL LORD CELLS

		NUMBER OF LOAD CELLS IN SCALE															
Ft of 18ga Homerun Cable	4	6	8	10	12	14	16	18	20	22	24	26	28	30	32	34	36
100	12 V	12 V	12 V	12 V	12 V	12 V	15 V	15 V	15 V	24							
200	12 V	12 V	12 V	12 V	12 V	15 V	15 V	15 V	15 V	24							
300	12 V	12 V	12 V	12 V	15 V	15 V	15 V	15 V	24								
400	12 V	12 V	12 V	12 V	15 V	15 V	15 V	24									
500	12 V	12 V	12 V	15 V	15 V	15 V	15 V	24									
600	12 V	12 V	12 V	15 V	15 V	15 V	24										
700	12 V	12 V	12 V	15 V	15 V	15 V	24										
800	12 V	12 V	15 V	15 V	15 V	15 V	24										
900	12 V	12 V	15 V	15 V	15 V	24											
1000	12 V	12 V	15 V	15 V	15 V	24											
1100	12 V	12 V	15 V	15 V	24												
1200	12 V	15 V	15 V	15 V	24												
1300	12 V	15 V	15 V	15 V	24												
1400	12 V	15 V	15 V	15 V	24												
1500	12 V	15 V	15 V	24													
1600	12 V	15 V	15 V	24													
1700	12 V	15 V	15 V	24													
1800	12 V	15 V	15 V	24													
Ft of Cable in Scale	69	123	177	231	285	339	393	447	501	555	609	663	717	771	825	879	93

OPTIONS (POWER REQUIRED AT THE SCALE):

- Media box with AC power
- Glass Fiber (1 mile)
- Plastic Fiber (300 ft)
- SnapStream wireless (1 mile unobstructed line of sight repeaters available)

KEY

12 V — 825

15V-225

24V — Power at Scale

CUSTOMER SERVICE: PH: 1-800-441-4237

FAX: 417-673-2153

E-MAIL: cardinal@cardet.com

PARTS DEPARTMENT: PH: 1-800-641-2045

E-MAIL: parts@cardet.com

TECH SUPPORT: PH: 1-866-254-8261

E-MAIL: tech@cardet.com



Cardinal Scale reserves the right to improve, enhance, or modify features and specifications without prior notice.

Services & Calibration

Technicians:

electronic scales to digital and hydraulic scales and models in the scale industry from mechanical to Since 1967 our technicians have worked with all makes

Including: Our Expertise Covers A Broad Spectrum

- Heavy Capacity: Truck, rail, hopper, electronic, and mechanical scales
- Medium Capacity: Floor, pallet and drum scales
- Light Capacity: Lab, balance, bench, counting, digital, and health scales
- Support Equipment: Indicators, remote displays, load cells

Our Customers Receive:

- 24/7/365 Emergency Service
- On-site and In-house scale service
- Service by trained technicians in accordance with industry standards
- Calibration using certified test weights according to industry tolerances
- Customized Service & Calibration maintenance schedules
- Servicing of all manufacturer's equipment
- Extensive inventory of load cells, mechanical parts and digital instrumentation
- Fully equipped test vehicles
- 5 Heavy Capacity Test Units and Over 8 Service Trucks
- Government certified test weights
- Leasing / Rental of equipment
- Professionally trained technicians
- Traceable Documentation
- Weights and Measures certifications



Products

software components and peripherals for industrial and business Weigh Scale Co., Inc. has the solution for you. use. For almost any business-related weighing requirement, Best We provide a wide range of weighing scales, custom systems,

- Industrial
- Retail
- Health
- Floor Scales
- Printers/Tickets
- Indicators
- Pallet Jack Scales
- **Load Cells**
- Balances
- Counting Scales
- Forklift & Lift Scales
- Cattle/Livestock Scales
- **Batching and Filling Controllers**

- Agricultura
- Transportation

Medical

- Truck Scales
- Rail Scales
- **Bench Scales**
- **Axle Scales**
- Checkweighers
- Software
- **Automated Ticketing**
- Retail Scales
- Crane Scales



Construction Services

fabricate customized components in-house design and engineering capabilities as well as preassist in pre, during and post construction phases, provide Dependent upon your project's scope, we fully manage or in-house design, engineering and construction services. solution provider in the San Joaquin Valley that provides Best Weigh Scale Co., Inc. continues to be the only weighing

- Pit Type Scale
- Above Ground
- Complete Deck Replacements
- Scale Relocations
- Steel Deck Concrete Deck Scale Installs

Our crew is capable of installing all



Rental Solutions

- Portable Motor Truck Scales 70' to 80
- Platform Scales (4x4 and 5x5)
- Transportable Axle Scales
- **Bench Scales**





