

The logo for ARMOR GUARDIAN truck scales. It features a black silhouette of a truck on top of the word "ARMOR" in large, bold, black letters with a red outline. Below "ARMOR" is the text "TRUCK SCALES" in a smaller, black, sans-serif font. Underneath that is the word "GUARDIAN" in large, bold, black letters with a white outline. A registered trademark symbol (®) is at the end of "GUARDIAN".

# ARMOR TRUCK SCALES GUARDIAN

HYDRAULIC LOAD CELLS

CHECKERED STEEL DECK



Cardinal



IMPERVIOUS HYDRAULIC  
STEEL DECK TRUCK SCALES  
WITH THE LONGEST-LASTING  
LOAD CELLS  
AVAILABLE



# THE MOST DEPENDABLE TRUCK SCALE YOU CAN BUY

**SUPERB ACCURACY AND LONGEVITY  
IN HOSTILE ENVIRONMENTS**



LEGAL FOR TRADE

- 135-ton capacity and 50-ton CLC standard
- Checkered steel deck platform
- Impervious against lightning strikes and water damage
- Holds up to high-impact, high-volume loading on tipping floors
- Lifetime load cell warranty
- Low-profile or pit-type installations
- Long-lasting, baked-on tan powder coat paint
- Tightly-spaced I-beam weighbridge for optimal structural integrity
- NTEP and Measurement Canada legal for trade



## BUILT TO STAND UP TO THE HARSHTEST ENVIRONMENTS

Cardinal Scale's ARMOR® truck scales with Guardian® hydraulic load cells are the smart choice for demanding applications like solid waste stations, quarries, grain elevators, chemical processing applications, and heavy construction.

Damage resulting from water, lightning and voltage surges, corrosion, rodents, shock loading, and extreme climatic conditions can dramatically increase the cost of ownership for your truck scale. Guardian® hydraulic load cells are covered under a true lifetime warranty against all of these issues protecting your investment.

## TRUE LIFETIME LOAD CELL WARRANTY

Cardinal Scale manufactures their own stainless steel, IP68-rated, 75,000-lb-capacity Guardian® hydraulic load cells for their truck scales. These SST75 load cells carry a true lifetime warranty when installed in a Cardinal truck scale by an



authorized Cardinal Scale dealer. They offer the highest level of protection possible against many of the conditions that adversely affect truck scales. Guardian® load cells can even operate fully submerged underwater!



# THE ULTIMATE, HEAVY-DUTY TRUCK SCALE

## SEVERE-DUTY RATED PROTECTION

- Immune to lightning and water damage
- 100,000-lb concentrated load capacity
- Operates in a wide range of extreme temperatures
- Boltless top access covers
- Integrated load cell pocket design
- Rugged 75,000-lb capacity stainless steel load cells
- Available in steel deck or pour-in-place concrete deck versions, plus multi-platform type scales
- Open bottom weighbridge prevents moisture build-up which leads to corrosion



### WEIGHT INDICATORS

Cardinal Scale manufactures a complete line of weatherproof stainless steel digital weight indicators to complement your truck scale, including models that can store truck ID numbers and truck tare weights.



### BUILT STRONG FROM THE INSIDE OUT

ARMOR® steel deck weighbridges utilize a tight concentration of 7.5-inch I-beam spacing which minimizes unsupported deck plate area and ensures that truck tire contact patches are always directly supported by one I-beam. This superior structural integrity provides a high 50-ton concentrated load capacity for heavy vehicle weights.

The structural steel is shot blasted to an SSPC-SP10 condition to remove rust and mill scale, then protected with a baked-on, heavy-duty polyester anticorrosion tan powder paint for the highest quality and durable finish.

### TOTALIZER JUNCTION BOX

The Guardian's pressure transducers, housed in the totalizer cabinet, are fluidly coupled to their SST hydraulic load cell counterparts and convert the pressure signal into an electrical signal which is sent to the scale's digital weight indicator in the scale house. You won't find any electrical circuits in an ARMOR® truck scale with Guardian® hydraulic load cells, so the load cells are immune to lightning damage and electrical surges. The fiberglass totalizer cabinet can be placed up to 20 feet from the edge of the weighbridge.



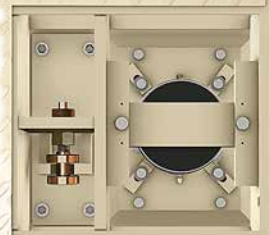
### INTERNAL WEIGHBRIDGE CHECKING

Cardinal Scale's ARMOR® truck scale with Guardian® hydraulic load cells includes internal checking. The weighbridge uses a frictionless bumper bolt system. Four bolts (two lateral and two longitudinal) set the checking for the entire truck scale. Checking distances are pre-set at the factory, and due to the checking system's internal location, parts are less susceptible to heat, thermal expansion, weather, and harsh environments. The need for service checks is lowered due to the lack of exposure to external elements versus external checking systems.

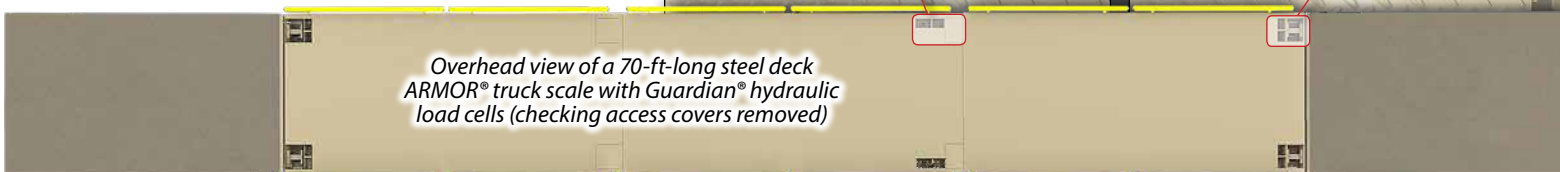
Guardian® steel deck internal longitudinal checking (2 locations)



Guardian® steel deck internal cross-scale lateral checking (2 locations)



Overhead view of a 70-ft-long steel deck ARMOR® truck scale with Guardian® hydraulic load cells (checking access covers removed)







Guardian® hydraulic stainless steel load cells are environmentally-sealed (IP68) for high-pressure washdowns and can operate fully submerged underwater for the highest protection rating possible.



## HYDRAULIC LOAD CELLS

### ARMOR® Hydraulic Truck Scale Steel Deck Models

LENGTH	Overall Capacity	CLC	Number Of Sections	WIDTH			
				10 Ft.	11 Ft.	12 Ft.	14 Ft.
12 ft.	50 tons	50 tons	2	1010500	1010519	1010538	1010557
20 ft.	50 tons	50 tons	2	1010501	1010520	1010539	1010558
25 ft.	50 tons	50 tons	2	1010502	1010521	1010540	1010559
30 ft.	70 tons	50 tons	3	1010503	1010522	1010541	1010560
40 ft.	70 tons	50 tons	3	1010504	1010523	1010542	1010561
47 ft.	70 tons	50 tons	3	1010505	1010524	1010543	1010562
50 ft.	80 tons	50 tons	4	1010506	1010525	1010544	1010563
60 ft.	110 tons	50 tons	4	1010507	1010526	1010545	1010564
70 ft.	135 tons	50 tons	4	1010508	1010527	1010546	1010565
75 ft.	135 tons	50 tons	4	1010509	1010528	1010547	1010566
80 ft.	135 tons	50 tons	5	1010510	1010529	1010548	1010567
90 ft.	135 tons	50 tons	5	1010511	1010530	1010549	1010568
100 ft.	135 tons	50 tons	6	1010512	1010531	1010550	1010569
110 ft.	135 tons	50 tons	6	1010513	1010532	1010551	1010570
117 ft.	135 tons	50 tons	6	1010514	1010533	1010552	1010571
120 ft.	135 tons	50 tons	6	1010515	1010534	1010553	1010572
125 ft.	135 tons	50 tons	6	1010516	1010535	1010554	1010573
140 ft.	135 tons	50 tons	7	1010517	1010536	1010555	1010574
160 ft.	135 tons	50 tons	8	1010518	1010537	1010556	1010575

### ARMOR® Hydraulic Truck Scale Steel Deck Multi-Platform Models

LENGTH	Overall Capacity	CLC	WIDTH	
			11 Ft.	
12, 20, 40 ft.	135 tons	50 tons	1010800	
15, 15, 50 ft.	135 tons	50 tons	1010801	
20, 20, 40 ft.	135 tons	50 tons	1010802	

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



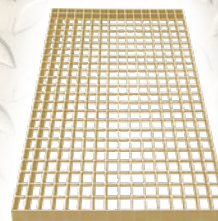
LEGAL FOR TRADE

**ARMOR Weighbridge:**  
Cert. No. 17-047

**SST Load Cell:**  
Cert. No. 05-076



**Notice of Approval**  
AM-4890



ARMOR® truck scale optional grain dump grating optimizes unloading in agricultural applications

#### OPTIONS:

- Bolt-on Pipe Guide Rails
- Grain Dump Modules
- Weight Indicators
- Remote Displays
- Vehicle Recording Software