

FAIRBANKS[®]

S C A L E S



MATRIX

CONFIGURABLE TRUCK WEIGHING SYSTEM

New cost-saving scale concept for ultra low-profile, commercially approved vehicle weighing.

MATRIX

Configurable Truck Weighing System

Configurable
Accurate
Innovative



Build a Matrix your way. Matrix steel platforms are 10 feet wide and come in standard lengths of 7, 10, 14, 17 and 20 feet. Configuring multiple platforms with variable length, steel-framed concrete dead span modules allows the system to be customized to fit a broad range of loading scenarios.

Build a custom Matrix scale in **SIX EASY STEPS**

#1



Select axle weighing platforms based on application truck sizes.

#2



Add custom length, concrete, dead spans.

#3



Select approaches (if required at your location).

#4



Add an approach ramp and exit ramp.

#5



Protect your scale with snow/debris covers.

#6



Select accessories, such as a Fairbanks scale instrument or driver assist terminal.



Special Features

Cost Saving Design

The Matrix is a new configurable truck weighing system that reduces cost by utilizing steel scale platforms only under each set of truck scale axles, and incorporating concrete modules (dead spans) between the scale platforms.

The Matrix is designed for installation on a level, unyielding surface, thereby eliminating cost associated with building a traditional foundation or pit.



Optional sectional controllers optically isolate load cells, providing the greatest lightning and surge protection available.

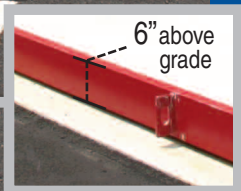


Encapsulated circuit boards are impervious to moisture. Encapsulating material has been used in critical aerospace applications.



INTALOGIX
TECHNOLOGY

This innovative design feature digitizes your signal and guards your scale investment against power surges and electrical strikes.



6" above grade

Low 6" profile allows for easy access to the Matrix.



Placing truck axles on Matrix weighing platforms is made easy for drivers by highly visible (yellow) scale frames.



A load cell access panel is located at all four corners of each weighing platform.

Load Cell Data

Capacity	50,000 lbs
Type	3.5" rocker column
Resistance	1,000 ohms
Output	2.0 mV/V
Material	Stainless steel, 17-4 PH
Protection	IP69K, true hermetic seal
Approvals	NTEP CC # 97-078, Factory Mutual

Discover Matrix Advantages

Matrix versus full-length above-ground scale

Typical 70 foot aboveground scale

- Requires full-length foundation
- Requires 140 feet of real estate for installation
- Captures gross weight
- Requires new foundation to relocate
- Can weigh vehicles 70 feet in length or less
- Requires permits for foundation construction
- Typically installed 14" to 18" above grade

70 foot MATRIX Truck Scale

- Simply requires a level, unyielding surface for installation
- Can require as little as 100 feet of real estate
- Captures gross weight and individual axle weights
- Requires only a level, unyielding surface to relocate
- Can be configured to weigh almost any vehicle
- Requires no foundation construction
- Ultra-low 6" profile

MATRIX

CONFIGURABLE TRUCK WEIGHING SYSTEM

Weighing Solutions for the World Since 1830

Fairbanks.com

SPECIFICATIONS

Capacities 45 ton to 60 ton
 CLC 60 k or 80 k
 Platform sizes
 Lengths 7', 10', 14', 17', and 20' configurable
 with dead span modules to achieve
 desired weighing system length
 Widths 10' standard
 Minimum division size 10 lbs
 Sections 2 to 16

Weighing module data:
 Design Orthotropic, open bottom
 Construction Structural steel
 Foundation type Requires flat unyielding surface
 Checking Bumper
 Approvals NTEP CC# 07-069,
 MC# AM-4949

Dead span module data:
 Construction Composite concrete
 Frame Structural steel and Nelson studs
 Required fabrication Field pour concrete

Load cell:
 Height 3.5"
 Capacity 50,000 lbs
 Type Rocker column
 Sealing Welded, hermetically sealed,
 gas filled
 Material Stainless steel, 17-4 PH
 Rating IP69K
 Resistance 1,000 ohms
 Output 2.0 mV/V
 Excitation 5 to 15 VDC
 Ultimate overload 300%
 Cable length 15'
 Cable protection Stainless steel braid ArmourGuard
 Approvals NTEP CC# 97-078, Factory Mutual

ACCESSORIES

Scale Instruments



Traffic Signals



Custom software



Remote Displays



Ticket printers



Driver Assist Terminals



OPTIONS

Custom sizes
 Deck runners
 Dolly plates
 Intrinsically safe electronics
 Ramps

Your Fairbanks Scales Authorized Representative is:

Call toll-free for the representative nearest you:

(800) 451-4107

Call between 8:00 a.m. – 5:00 p.m. Central Time
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