

FAIRBANKS®

RODAN® RC MEGABAR SERIES TRUCK SCALES



**Factory
Mutual
System**
Approved
Load Cells



The Megabar line of truck scales offers a factory poured and cured concrete deck with traceable quality control documentation.



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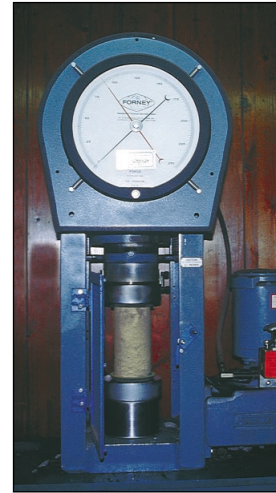
Fairbanks' Rodan RC Megabar Series are fully electronic truck scales designed for above ground use with the added feature of a factory poured and cured concrete deck.

MEGABAR'S ADVANCED WEIGH BRIDGE DESIGN

Our Heavy Duty Megabar truck scales are designed to handle the highest volume industrial weighing applications. To ensure this, Fairbanks limits weigh bridge deflection to standards most other manufacturers do not meet (1/900th the span at the Dual Tandem Axle Capacity rating). The structural frame of the Megabar is made of heavy steel I-beams which provide a high strength to weight ratio. Also of note is the Megabar's unique, open-bottom design that eliminates areas for moisture to collect in the modules and allows natural weigh bridge ventilation. The end result is the prevention of premature corrosion.

MEGABAR DEFEATS THE ENEMIES OF CONCRETE

Tension is a major enemy of concrete. In the design of the Megabar, the concrete is located above the scale's neutral axis, therefore the concrete never experiences tension. **Corrosion** and **Freezing** are other enemies the Megabar is designed to defeat. Micro particles in the Megabar's concrete mix fill every void between the stone, sand and cement, resulting in extremely low permeability. The Megabar concrete will not allow the absorption of moisture, therefore eliminating any problem associated with water intrusion. **Inconsistency** is concrete's fourth enemy. Inconsistent concrete pours that do not meet manufacturers' specifications, or can cause costly delays, are eliminated with the Megabar scale. Each Megabar pour is factory tested to specifications and documented for traceability to assure that a quality product is shipped each and every time.



Fairbanks patented Megabar concrete boasts the highest strength and durability in the scale industry. (Left) Test cylinders from each pour must meet stringent engineering standards.

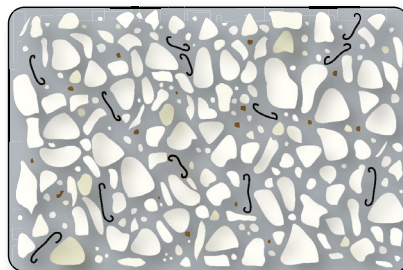
GUARANTEED CONCRETE

When Fairbanks manufactures a Rodan Megabar truck scale, concrete test cylinders are taken according to American Society for Testing and Materials (ASTM) specifications. After the concrete is steam cured, the test cylinders are broken at the factory to ensure that the concrete meets stringent engineering specifications before the scale is shipped. The resulting data is then documented and placed in an archive for future reference. Fairbanks is the only manufacturer that offers traceable concrete test reports for its factory poured concrete scales.

MEGABAR CONCRETE FORMULA IS STRONGEST ON TODAY'S MARKET

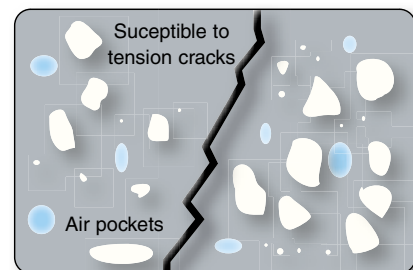
Fairbanks patented Megabar concrete formula is unmatched among U.S. truck scale manufacturers. Its strength relies on the following ingredients: Superplasticizer, Microsilica force 10,000, high strength steel fibers and crushed limestone.

These ingredients are mixed with concrete, gravel, air and water, then poured into a Megabar module. The mixture is vibrated internally to eliminate any voids. It is then vibrated externally and a minimum 1/4" crown is formed on the deck to eliminate water from ponding. Each module is steam cured at 150° F for 12 hours. Finally, the comprehensive strength of test cylinders, made during the pour, are examined and must meet a minimum strength of 8,000 psi.



MEGABAR CONCRETE

- Low permeability
- High flexural strength
- Guaranteed quality
- Steam cured in controlled environment
- Tested for quality assurance
- Traceable factory documentation



STANDARD CONCRETE

- High permeability
- Low flexural strength
- Questionable quality
- Cured in ambient environment
- Typically no quality tests
- No traceable documentation

SIDE-BY-SIDE

OFF-ROAD VEHICLE SCALES

Fairbanks now offers an NTEP approved, heavy duty, off-road vehicle scale for those extra wide or extra heavy weighing applications. The side-by-side Megabar scale can be sized to fit nearly all off-road vehicle weighing applications. With a 400,000 lb. capacity, the Rodan side-by-side can weigh almost any off-road vehicle, including a Euclid R40, a Caterpillar 773 and a TEREX 3308.



The side-by-side Rodan RC Megabar Truck Scale is capable of weighing heavy off-road vehicles like the Euclid R40, shown above.

COST EFFICIENT INSTALLATION AND EASE OF MAINTENANCE

The above ground foundation of the Rodan RC Megabar Series truck scales requires less preliminary installation work due to its advanced modular design, saving both valuable time and money. With the elimination of any cast-in-concrete anchor bolts and grout pockets for load cells, the foundation is as simple as pouring the piers and forming and pouring the approaches. An additional benefit of the above ground foundation is the minimal time required for preventative maintenance. All checking hardware is easily accessible and adjustable from the top side at the ends of the scale. Because of its intelligent load cell design, Megabar repairs require minimal effort. Just elevate the panel about 1.5", tilt the load cell and remove. In the long run, quick maintenance means less down time and greater savings.

SUPERIOR LOAD CELL DESIGN

Fairbanks' patented, stainless steel, hermetically sealed, rocker column load cell allows the Megabar truck scales to absorb the shocks and jolts caused by trucks moving on and off the scale, therefore never compromising accuracy! The electrochemically polished steel construction helps to eliminate the corrosive effects often found in harsh, wet environments. By hermetically sealing the sensing section and the cable entry to the NEMA 6P (IP68) standard, the load cell design ensures extended life and minimal down time. Also, to reduce chances of system failure, the load cell cable that connects directly to the sectional controller is only 15 feet long. The load cell cable is protected with stainless steel braided armor. The stainless steel jacket eliminates any problems associated with gnawing rodents, RFI/EMI interference or potential abrasions when pulling through conduit or cable runs.

INTALOGIX® TECHNOLOGY

Fairbanks exclusive Intalogix Technology is a standard feature on the Rodan RC Megabar Series. This state-of-the-art, digital technology offers you improved lightning protection, superior diagnostic capabilities and enhanced precision. In addition, Intalogix Technology allows the operator to simultaneously view the output of load cells as though they were individual scales. Each section of the scale is polled 16 times per second and visually displayed to show real time load cell counts. Quick analysis via modem can diagnose problems, confirm scale accuracies and identify future problems. Intalogix Technology will allow you to reach a new level of weighing accuracy and change the way you service your scale.

FAIRBANKS' DIGITAL INSTRUMENTS

When combining the Rodan RC Megabar Series Truck Scales with



Fairbanks' stainless steel, rocker column load cells allow the Rodan RC Field Pour Series truck scales to absorb the shocks and jolts caused by trucks on the platform, so your results are never compromised.

Fairbanks' 2500 Flash Series Instruments with Intalogix Technology, all your applications are covered. So, whether it's filling, load out, in/out weighing, networking or even using a custom program, you can do it all with just one instrument. The flash memory capabilities of the 2500 Series allows you to easily change your application by simply "flashing" in a new application. This can be done either by telephone modem or on-site. As your needs change so can your instrument, without making any hardware changes to your existing system.



Fairbanks' 2500 Instrument features Intalogix Technology which offers unsurpassed lightning protection to all of your scales' electrical components.

FACTORY OPTIONS

The Rodan Megabar Series truck scales are available in axle, full length and highway system configurations. Also available are pit access, man-holes and rub rails. Custom lengths and widths are available to accommodate special vehicles or existing foundations.

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RODAN® RC MEGABAR SERIES TRUCK SCALES

SPECIFICATIONS:	60K HEAVY DUTY	80K HEAVY DUTY
Platform Sizes	10' x 100' to 11' x 100'	10' x 100' to 12' x 100'
DTAC/CLC	60K	80K
Number of Structural I-beams	10 (eight 8" and two 12")	10 (eight 8" and two 14")
Deflection	1/900	1/900
Usage	600 @ 60% DTAC	600 @ 60% DTAC
(Weights per day at rated Dual Tandem Axle Capacity)	300 @ 80% DTAC	300 @ 80% DTAC
	100 @ 100% DTAC	100 @ 100% DTAC
Load cell capacity	30t (66K)	50t (110K)
Deck thickness	4"	6"
Foundation type	Above ground and pit	Above ground and pit
Factory options	Rub rails, Manholes	Rub rails, Manholes

GENERAL SPECIFICATIONS:

(60K and 80K heavy duty models)

Capacities	30 ton to 100 ton
Sections	2 to 7
Modules	1 to 5
Module Data:	
Module design	Composite steel and Megabar concrete
Module construction	Structural steel I-beams with factory poured concrete
Module under structure	Open bottom with no enclosed areas
NTEP COC #	96-089
Load Cell Data:	
Load cell type	Rocker column
Load cell protection	Stainless steel, hermetically sealed
Load cell resistance	1,000 ohms
Load cell output	2.00 mV/V
Load cell cable length	15'
Load cell cable protection	Stainless steel sheathing
Load cell approvals	NTEP COC# 97-078, Factory Mutual Approved

TRUCK SCALE ACCESSORIES:



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



Remote weight display available in numeric sizes of 1.5", 4" and 6".



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

Your Fairbanks Scales Authorized Representative is:

Call your representative :

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St. Johnsbury manufacturing facility registered in compliance with ISO 9002.

