

RAILSIDE CAR SHAKER

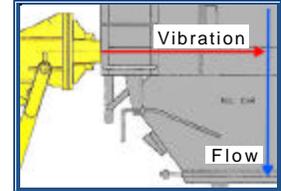
For Loading and Unloading



Why Use The Railside Car Shaker?

The NAVCO® Railside Car Shaker is a permanently mounted vibration system designed to speed the loading and unloading of bulk material from railcars. In both field tests and live installations the Railside has proven its ability to reduce unloading time by up to 75%. The high amplitude, low frequency vibratory energy developed by the Railside's drive mechanism is far superior to the high frequency rotational vibration used in other common railcar flow aid devices.

Vibration transmitted in a plane perpendicular to the flow of bulk material is transferred more effectively, resulting in the most efficient material movement possible.



This form of applied vibration makes the Railside particularly adept at loosening material from the walls of the rail car; a feature that greatly reduces carryback. The Railside Car Shaker also facilitates unloading & clean-out of stationary cars where hang-ups are only occasional or weather dependent. The unit can be operated from a remote location by one person and can easily be integrated into an automated process.

This low frequency, high amplitude, linear vibration design makes the Railside Car Shaker the most effective equipment choice for producing positive and complete material movement in railcars.

The standard NAVCO® Railside Car Shaker consists of a unidirectional piston type drive assembly, a pneumatic positioning cylinder and a heavy duty sturdy steel chassis. The mouth of the chassis typically holds a 6"x 8"x 5' wood contact beam which makes contact with the railcars.

Operation is started at the controller which can be stationed at a remote location and operation can easily be managed by one person. When the Railside Car Shaker is started the positioning cylinder is activated which extends the Railside so that the contact beam rests firmly against the car. Next, the drive assembly is energized and loading or unloading begins. Once loading or unloading is completed the drive is de-energized and the positioning cylinder retracts so that the Railside Car Shaker returns to its inactive position.



Railside Car Shaker

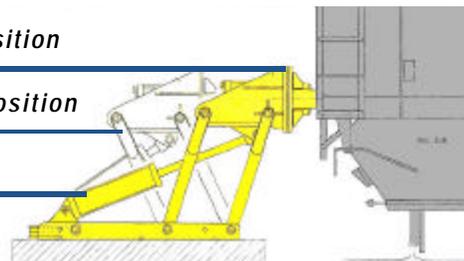


Controller

Extended / Active Position

Retracted / Inactive Position

Positioning Cylinder



Construction & Operation

Weight: 3000 lbs.

Air Pressure: 100 psig

Air Volume: 180 scfm at 100 psig

Electrical: 120 VAC*
*for timer only

E C A R S H A K E R

A unique option available for the Railside is the Roller model, which is manufactured with extra heavy duty steel rollers at the contact point. This allows the Roller Railside to make contact with a moving railcar. As the railcars slowly roll by the Shaker methodically and precisely vibrates each car, one after another.

The Railside Car Shaker is also available in a compact electric model. The two JOEST/NAVCO JV Electromechanical Drives that energize it are built specifically for rugged continuous duty vibration



Optional Equipment:

- Impacting Air Cushioned Drive
- Special Hazardous Area Construction

Models

View Specifications online at www.navco.org

SAFETY - A permanent installation eliminates the need for employees to carry portable units from car to car and can reduce hazards by eliminating the need to manually clean railcars.

SAVINGS - Because the entire operation of the Railside unit can be performed by one man savings on labor is realized. Savings in material costs is realized by eliminating carryback. Densifying material at loading time will increase load tonnage per car .

SPEED - Increased amplitude at low frequencies creates maximum material movement for faster loading and unloading - proven up to 75% faster.

COST - The compact design and dampening features of the Railside reduce installation costs dramatically due to minimal anchoring *requirements*.

Advantages

NAVCO® Railcar Equipment Products are designed to meet specific process requirements utilizing applied vibration. All NAVCO® hopper car products can be used for both loading and unloading.

Hopper Car Portable Vibrators The universal mounting head of the HCP fits all dovetail brackets found on hopper cars.

HCP Carts Makes installation, transportation and removal of the HCP easier, available in manual or automatic models.

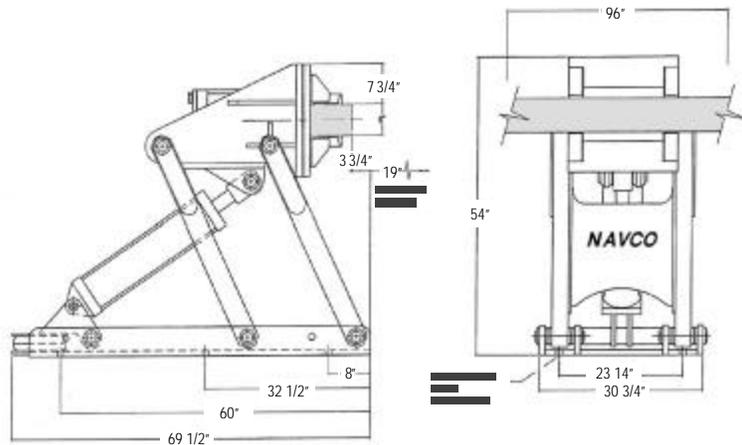
Overhead Car Shaker A very heavy duty, proprietary design for use on older steel or aluminum cars. A hoist/trolley system is required for handling the Overhead Car Shaker.



Other Railcar Products

Railside Car Shaker General Arrangement

NAVCO® has been solving material flow problems in industrial applications for over 45 years. The high amplitude, low frequency, linear impulse generated by pneumatic piston vibrators is ideal for dislodging and facilitating the flow of dry-bulk materials in various industries including:



Power

Steel

Plastics

Chemicals

Concrete & Aggregate

Pulp & Paper

Food Processing

Feed & Grain

Pharmaceuticals

Foundry

Automotive

Mining

Ceramics

Textiles



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