

● RAILROAD CARSHAKERS

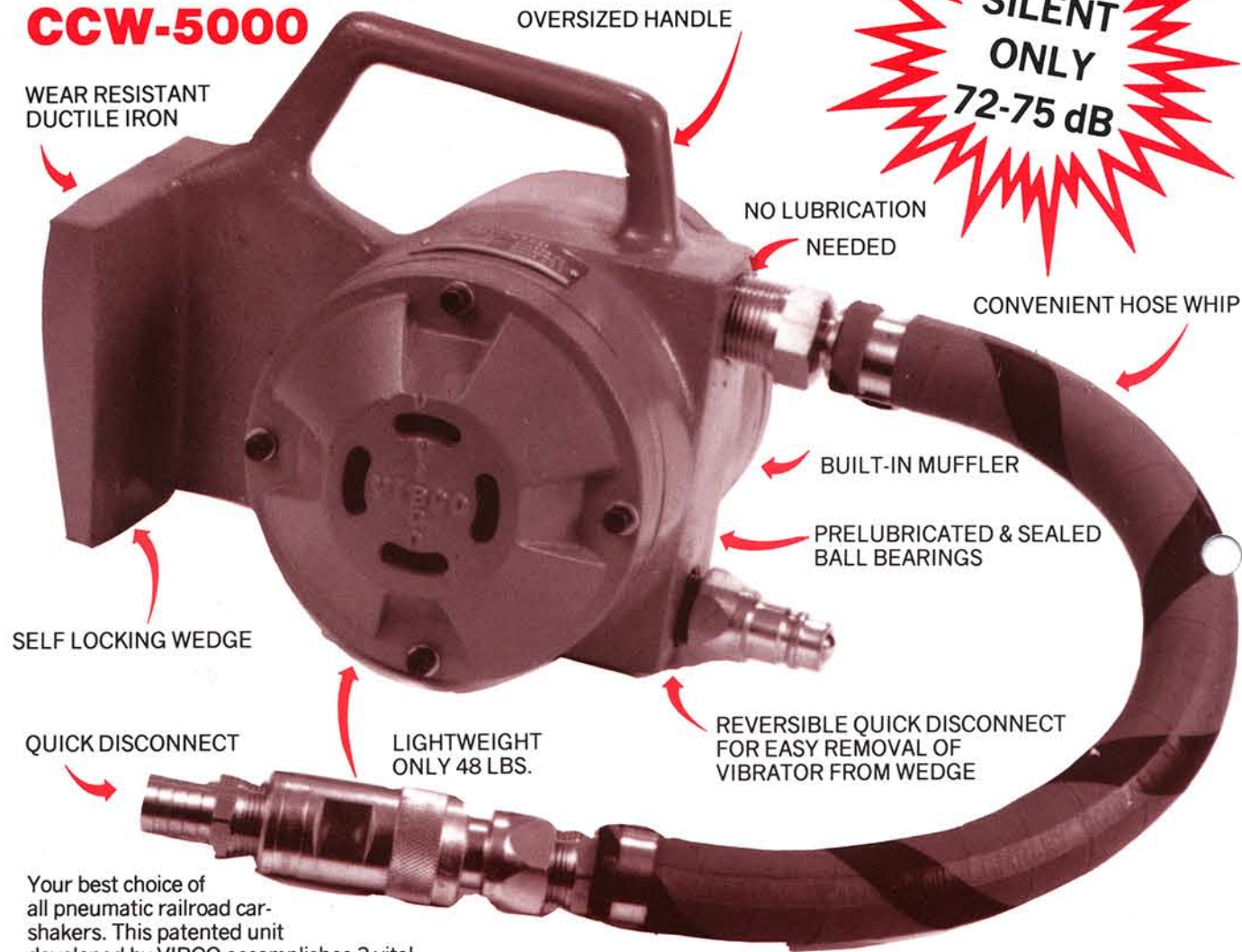
A photograph of a worker in a blue denim jacket and grey beanie operating a red VIBCO carshaker on a railroad car. The worker is wearing safety glasses and is focused on the task. The carshaker is a large, red, cylindrical device with a handle and a hose. The background shows the side of a white railroad car with some blue text. The entire image is overlaid with a grid pattern.

VIBCO

<http://www.VIBCO.com>

THE MOST POPULAR OF ALL CARSHAKERS

ROTARY PISTON CCW-5000



SILENT ONLY
72-75 dB

Your best choice of all pneumatic railroad carshakers. This patented unit developed by VIBCO accomplishes 3 vital functions.

1. Versatile, will empty 90% of all materials.
2. Silent, no more noise than an electric motor (72-75 dB).
3. Low air consumption compared to other pneumatic units. Other features: lightweight 48 lbs. — no lubrication needed — can easily be repaired by your maintenance department. Prompted by many complaints of the high noise level of conventional pistons and the frequent maintenance of air motor driven carshakers, VIBCO engineers designed the SILENT ROTARY PISTON VIBRATOR. The wedge bracket fits all standard dovetail brackets welded to railroad cars. Ideal for unloading coal, grains, cement, chemicals, etc. No more wedging or hammering to remove it from the female bracket on the car — just run vibrator backwards — reverse the air flow by connecting the hose to the bottom air nipple and vibrator will reverse rotation and back out of the female bracket.

THE MOST POWERFUL OF ALL WEDGE TYPE CARSHAKERS

ROTARY ROLLER SVRWS-5500 SVRWS-6500



SILENT ONLY
78-80 dB

These High Frequency pneumatic units are the best choice of railroad carshakers for materials with moisture content, they will move the most stubborn materials. They come in two sizes, SVRWS-5500 with speeds up to 10,000 VPM (vibrations per minute) 5500 lbs. force, and SVRWS-6500, 9000 VPM and force up to 6500 lbs. The patented unit is bearing-less with only two moving parts. It's patented wearplates cut maintenance costs by 75%. This makes it the lowest maintenance and longest lasting railroad carshaker on the market. The patented design cuts the noise — up to 20-30 dB less than comparable competitive units.

Unload Railroad Hopper Cars Faster, Cleaner with Less Labor . . .



THE SILENT RAILROAD CARSHAKERS

The Most Complete Line of Portable Railroad Carshakers

AVAILABLE IN:

- Pneumatic Operation • Electric Operation
- Hydraulic Operation



MODEL 44-3



MODEL SVRLW



MODEL SVRLC



MODEL PFW-1500



MODEL PC-3500



MODEL VMW
WEDGE BRACKET



MODEL VMC
CLAMP BRACKET

PISTON AIR

Model 44 carshaker has wedge bracket to fit car's female Dove-tail receptacle. Available in powerful 3" and 4" bore sizes to help evacuate hopper cars quickly.

The light weight, ease of portability, low cost and high forces of Model 44 carshaker has proven highly desirable for the small to medium consumer.

For Technical information see page 21 in general catalog.

HIGH FREQUENCY AIR

In addition to SVRWS-5500 and 6500, preceding page, VIBCO also offers these High Frequency units with clamp-on brackets and up to 8000 lbs. of force in three models, Model SVRC-5500, 6500 and 8000. Wedge bracket (SVRW) can also be supplied if customer wants to move vibrator from wedge bracket to clamp-on bracket. The High Frequency units are lifesavers when removing moist and sticky materials from railroad cars. For technical information, see page 23 in general catalog.

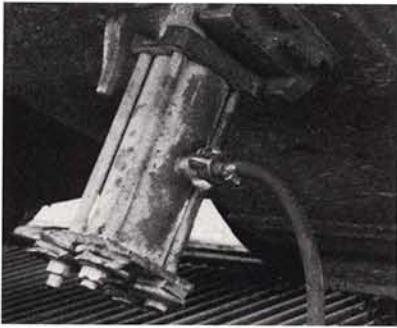
BIG BUSTER

"Big Buster" carshakers, Pneumatic and Hydraulic, provide high force at low frequency, ideal for moving coarse materials. They come with wedge bracket, Model PC-1500 (HC-1500 Hydraulic and Model PC-3500 (HC-3500) with clamp-on bracket. VIBCO's patented vibration isolation couplings stop vibration from reaching the drive motor, insuring the use of it's full life and eliminating premature, costly drive motor repairs and costly down time. For technical information, see page 27 in general catalog.

ELECTRIC

The VIBCO Electric Carshakers use the Heavy Duty line electric vibrator, Model 2P (3600 RPM) and Model 4P (1800 RPM). 2P models for fine to coarse materials — 2P-450, 2P-800 for wedge mounts and single or three phase operation. 2P-1700 and 2P-2500 are supplied with clamp-on brackets and are three phase units. 4P models are used for coarse and stringy materials — 4P-700 and 4P-1000 are used on wedge mounts, single or three phase operation. Their high torque and amplitude makes them less susceptible to electrical overload. All models have overload protection and adjustable eccentrics providing flexibility to meet changes in material contents or density. For technical information, see page 3 in general catalog.

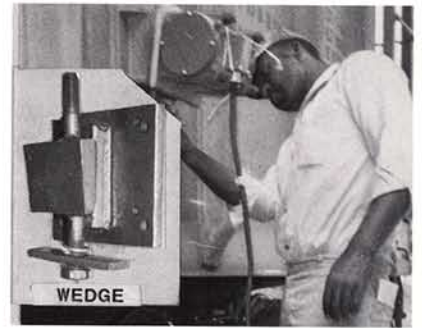
Unload Railroad Hopper Cars Faster, Cleaner with Less Labor . . .



Model 44-3''L removing feed.



Model CCW-5000 used to remove feed.



Model VMW-450 in side bracket of R.R. car carrying flour.



Model CCW-5000 used on R.R. hopper storage car containing sawdust.



Model SVC-8000 mounted on side to remove coal.



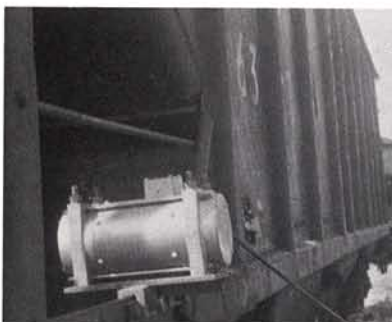
Model CCW-5000 removing PVC powder.



Model CCW-5000 used for removing chemicals from R.R. hopper car.



Model VMC-800 clamped to hopper.



Model VMC-1700 clamped to side tier of coal car.



Model 4P-1000 used for emptying chemicals.

SIMPLE RULES FOR SELECTING YOUR CARSHAKER

MATERIAL IN R.R. CAR

Group 1	Cement, flour, carbon black, bone black, aluminum shot.
Group 2	"After" Vibration: (For cleaning car) Cement, sugar, flour, chemical salts (no moisture), corn grits, arsenic, barley hops, carbon black, borax, fluoride, gypsum, sodic sulphate, peanuts, sodium nitrate, semolina, tri-sodium phosphate and the like materials.
Group 3	Salts, molasses, iron ore, malt (if sticky) potash, bauxite, calcium carbide, crushed marble, and the like materials.
Group 4	Sand, stone, asphalt, stone dust, fly-ash, salt, coal, clay-lime-lumps, and the like materials.

ELECTRICALLY OPERATED

Model	CONSISTING OF		Electric*	Weight Lbs.	Used For Group	dB**
	Vibrator	Bracket*****	Power			
VMC-450	2P-450***	Clamp-On	1 & 3 Phase	50	1	70
VMC-1000	4P-1000****	Clamp-On	1 & 3 Phase	52	1	70
VMW-450	2P-450	Wedge	1 & 3 Phase	48	1	70
VMW-700, 1000	4P-700, 4P-1000	Wedge	1 & 3 Phase	50	1	70
VMC-800	2P-800	Clamp-On	1 & 3 Phase	85	2	75
VMW-800	2P-800	Wedge	1 & 3 Phase	75	2	75
VMC-1700	2P-1700	Clamp-On	3 Phase	90	3	78
VMC-2500	2P-2500	Clamp-On	3 Phase	98	4	80

AIR OPERATED

Model	Vibrator	Bracket	CFM/80 PSI	Weight Lbs.	Used for Group	dB*
CCW-5000	Rotary Piston	Wedge	35	48	1-2	72-75
44-3	3" Piston	Wedge	30	50	1-2	93-95
CCW-5000	Rotary Piston	Wedge	35	48	1-2	72-75
PFW-1500	PF-1500	Wedge	21	55	1-2	80-85
PFC-1500	PF-1500	Clamp-On	21	63	1-2	80-85
CCW-5000	Rotary Piston	Wedge	35	48	2-3	72-75
SVRWS-5500, 6500	High Frequency	Wedge	50	48	2-3	78-85
44-4	3"L Piston	Wedge	50	60	2-3	90-95
PC-3500	PC-3500	Clamp-On	39	70	2-3	80-85
SVRWS-5500 & 6500	SVRS-Silent High Frequency	Wedge	50	48	3-4	78-85
PC-3500	PC-3500	Clamp-On	39	51	3-4	80-85
SVRC-5500, 6500, & 8000	SVR-High Frequency	Clamp-On	55	58	3-4	93-95

* 115 or 230 volt 1 phase; 230, 460, 575 volt 3 phase

** Decibel at 1 meter on A-scale

*** 2P-450 for fine to granular materials

**** 4P-1000 for lumpy or stringy materials

***** When possible use wedge bracket over clamp-on for better vibration transfer

ADDITIONAL CONSIDERATIONS:

The combination of 2 vibrators, one of High Frequency and one of Low Frequency create "Interference Vibration" which creates a simulated vibration variation from low to high frequency and low to high amplitude. This rapid variation will break loose and move the most stubborn materials. Consult VIBCO for recommendations.



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