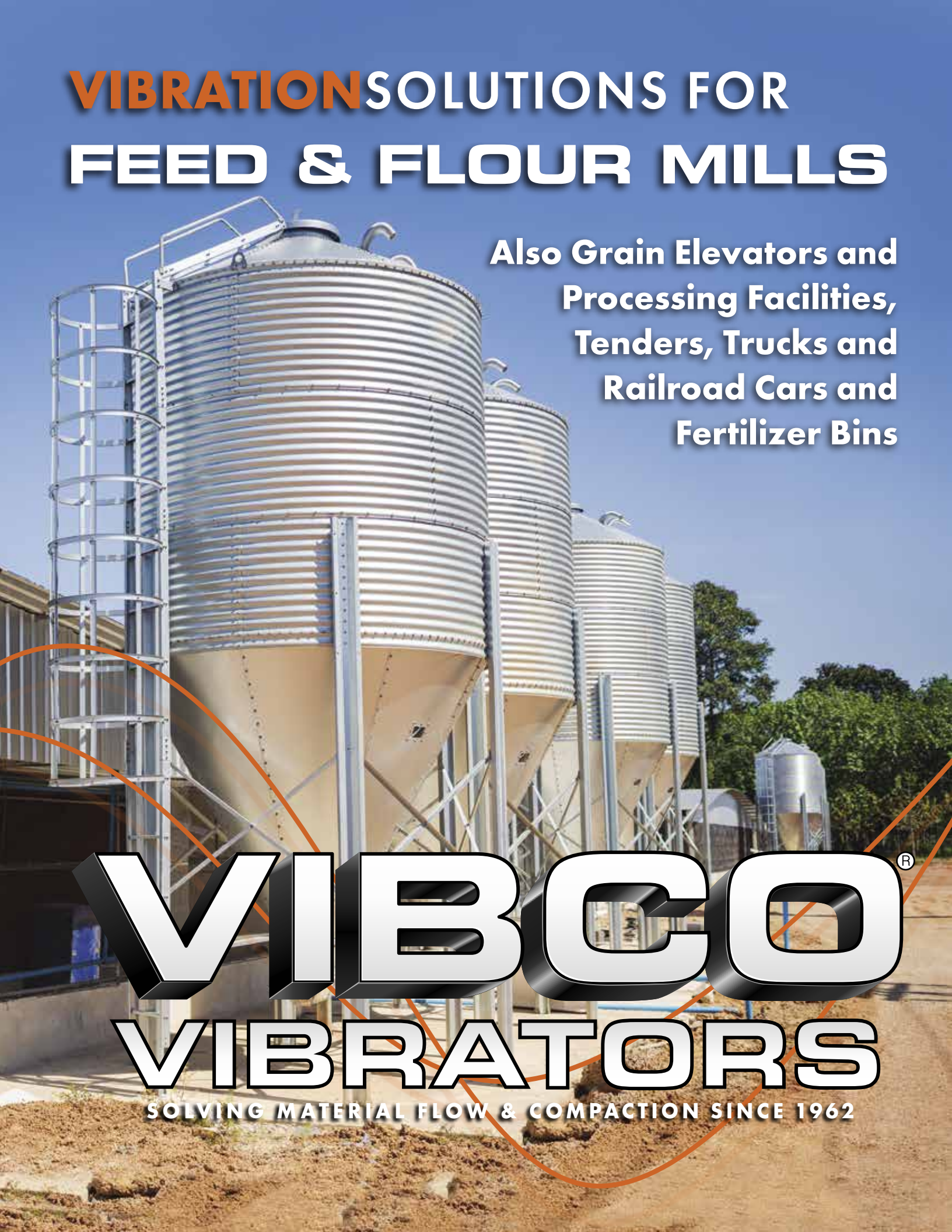


VIBRATION SOLUTIONS FOR **FEED & FLOUR MILLS**

**Also Grain Elevators and
Processing Facilities,
Tenders, Trucks and
Railroad Cars and
Fertilizer Bins**



VIBCO[®] **VIBRATORS**

SOLVING MATERIAL FLOW & COMPACTION SINCE 1962

VIBCO

SERVING AGRICULTURAL MARKETS SINCE 1962

WITHOUT
VIBRATION,
PRODUCT
HANGS UP

WITH VIBCO
VIBRATION,
PRODUCT
FLOWS
EFFICIENTLY

OPTIMIZE YOUR GRAIN OPERATIONS WITH VIBCO VIBRATORS

VIBCO Vibrators are a crucial asset in the grain industry, providing numerous benefits such as improved grain flow, increased efficiency, cost savings, enhanced safety, quality assurance, and unmatched versatility. Vibration technology from VIBCO is essential for grain handling and processing, supporting the agriculture market that sustains the global population and drives worldwide economies.

ACCELERATE YOUR "GROW TO MARKET" JOURNEY WITH VIBCO

Our advanced vibration equipment ensures your agricultural production process is streamlined, saving valuable time and increasing profitability at every stage. Here's why VIBCO is your go-to solution:

OPTIMIZED GRAIN FLOW

From seeding and tending to harvesting, storing, and transporting, VIBCO vibration technology guarantees a consistent and smooth flow of grains through bins, hoppers, and chutes. It prevents clumping, clogging, and bridging, which can disrupt grain movement in processing and storage facilities. With

VIBCO, eliminate hang-ups and maximize productivity, saying goodbye to delays and inefficiencies our side.

ENHANCED EFFICIENCY:

By promoting seamless grain flow and preventing blockages, VIBCO vibrators significantly boost operational efficiency. They reduce downtime caused by manual clearing of blockages or equipment malfunctions due to poor flow. Our vibration technology prevents buildup, removing the need for risky manual interventions and ensuring efficient grain storage.

COST SAVINGS:

VIBCO Vibrators contribute to substantial cost savings by minimizing product waste, reducing energy consumption, and lowering maintenance costs. They enhance the efficient use of equipment and resources in grain handling and processing operations, optimizing your overall profitability.

Embark on a more efficient and profitable agricultural journey with VIBCO vibrators, your reliable grain processing and handling partner.



Water Tight Electric: SCR-60



SVRLS-4000AL with StikIt™ Mount



Pneumatic Piston: LI-10 with timer



SPA style bracket bolted silo

VIBCO GRAIN HANDLING SOLUTIONS

EXPERTISE AND EFFICIENCY

VIBCO is your go-to expert for all grain handling needs. We understand that time is money, and finding people to do these jobs can be challenging. Our vibrators eliminate the need for manual intervention, ensuring grains flow smoothly and consistently.

ENHANCED SAFETY:

Our vibrators facilitate a smooth and consistent flow of grains, improving workplace safety by reducing the need for manual intervention in potentially hazardous situations. This lowers the risk of accidents related to equipment blockages and overflows.

QUALITY ASSURANCE:

Maintaining a consistent flow of grains ensures uniformity and quality of the final product. VIBCO vibrators help achieve this by preventing segregation, uneven distribution, or grain damage during handling.

VERSATILITY:

VIBCO offers a range of vibrators in various sizes and types, making them suitable for diverse applications in the grain industry. We recognize the uniqueness of each agricultural setup and provide tailored solutions to meet specific needs. By understanding parameters such as bin material, shape, temperature, moisture content, and discharge method, we recommend the perfect vibration solution for your operation.

PERSONALIZED SUPPORT AND TECHNICAL ASSISTANCE

At VIBCO, customer satisfaction is our top priority. Our dedicated sales engineers are available 24/7 to provide expert technical assistance and guidance. Contact us at 800-633-0032 for tailored advice to suit your specific requirements.

EXPERIENCE THE DIFFERENCE TODAY:

Visit https://www.fertilizertender.com/data_inquiry.html to begin your journey with VIBCO vibration solutions. Make every stage of your agricultural journey smoother, more efficient, and more profitable with VIBCO vibration equipment.

EFFICIENT FLOW=INCREASED PROFITS

Enhance operational efficiency and profitability throughout every stage of your agricultural process with VIBCO vibrators as your partner. The OH Kruse Feed Technology Innovation Center at Kansas State University partners with VIBCO Vibrators to educate future generations on the latest technologies, including the proper vibration applications.

SELECT THE CORRECT VIBRATOR

1. Determine the needed vibrator force for your application.
2. Find available vibrator models
3. Select Electric, Pneumatic or Hydraulic operation.

1. DETERMINE CENTRIFUGAL FORCE (IMPACT) FOR YOUR APPLICATION

A. BINS, HOPPERS

To move the material in a bin or hopper, the friction between the material and the bin skin has to be broken. Once this is done the material cannot cling to the bin sides and it will flow out through the discharge. The vibrator force needed to accomplish this, is for 80% of all applications, very simply calculated as follows:

Calculate the weight of the material in the transition or sloping part of the bin. Normally this is the only place where the friction between the material and the bin sides has to be broken.

DO NOT CALCULATE THE TOTAL WEIGHT, ONLY WHAT IS IN THE TRANSITION PART.

For **CONICAL BINS**, calculate as follows:

$.261 \times \text{dia.}^2 \times \text{height} \times \text{material density in lbs/cu. ft.}$

For **RECTANGULAR BINS**,

$\text{length} \times \text{width} \times \text{height} \times 1/3 \times \text{material density.}$

When the weight has been calculated, divide by 10. The figure you get is the force or impact needed on your vibrator _____ lbs. Continue with **PAGE 4**.

For example: The conical part of a 25 ton bin contains 7000 lbs. Divide 7000 by 10, you need a vibrator with 700 lbs. of centrifugal force or impact. Find suitable vibrator on **PAGE 4**

NOTE: Additional considerations when sizing vibrator to bins.

1. If bin side angle is below 30°, select next larger vibrator.
2. If bin thickness is extra heavy (see table under **PAGE 4**), select next larger vibrator.
3. On real sticky and hard to move materials, it is better to use two (2) small vibrators instead of a large one (find the smaller one by figuring half the material weight.)



Pneumatic/Muffler: MLTSS-130



Hydraulic: HLF-700 with 9,000 VPM



Heavy Duty: 6P up to 2,000 lbs. force



Adjustable Speed: DC or US-450T

FEED BIN VIBRATORS

MOST POPULAR PNEUMATIC VIBRATORS



VS-380
SILENT TURBINE PNEUMATIC



VS-510
SILENT TURBINE PNEUMATIC



55-2
PISTON PNEUMATIC

2. FIND AVAILABLE VIBRATOR MODELS

From the table below, draw a line across from the force calculated in paragraph A on **PAGE 3**. You will find you have a choice of several vibrators, both electric, pneumatic and hydraulic models. List them below and continue with this page.

MODEL: _____

To continue with the example - 700 lbs. of vibrator force is needed. Draw a line straight across from 700 lbs. The line will cross the force ranges of suitable vibrators: Electric Models 2P-450; 2P-800; 4P-700; 4P-1000; US-900; SCR-1000; and Pneumatic Models BVS & VS-380; BV & V-380; 50-2L; 50-2LS; PF-800. Now continue with **PAGE 5** to make final selection.

Vibrator Force or Impact lbs.	ELECTRIC MODELS										PNEUMATIC MODELS						HYDRAULIC		Bin Skin Max. Thickness
	2P	4P	6P	8P	SPR	US	SFC	FC	SCR	SCR	TURB.	BALL	PISTON	SVR	BIG BUSTER	HYD.	BIG BUSTER		
10																		20 Ga.	
20					SPR 20 & 21													20 Ga.	
40					SPR 40													1/16	
60					SPR 60													1/8	
80					SPR 80													3/16	
100	2P-75					US-100												1/4	
150																		5/16	
200																		5/16	
300		2P-200		4P-350														3/8	
400				6P-300														3/8	
500				6P-500														7/16	
600				8P-500														7/16	
700	2P-450		4P-700			US-900												1/2	
800																		1/2	
900		2P-800		4P-1000														1/2	
1000			4P-1400			US-1600												1/2	
1200																		1/2	
1400																		3/4	
1600	2P-1700																	3/4	
2000		2P-2500	4P-3000															3/4	
2500			4P-2000															3/4	
3000																		3/4	
3500																		1	
4000																		1-1/4	
4500																		1-1/4	
5000																		1-1/4	
6000			4P-10000															1-1/4	
7000																		1-1/4	
8000																		1-1/4	



FEED BIN VIBRATORS

MOST POPULAR ELECTRIC VIBRATORS



SFC-400
115 VOLT ELECTRIC



2P-450 AND 2P-800
ELECTRIC



US-1600
ELECTRIC

3. SELECT ELECTRIC, PNEUMATIC or HYDRAULIC OPERATION

PNEUMATIC VIBRATOR MODEL SELECTOR

ELECTRICAL DATA	PNEUMATIC					
	Turbine	Ball	Piston	SVR	SVRS	Big Buster
Decibel at 3' on A scale*	72-78	85-95	90-95	95-105	80-85	80-90
Air Consumption**	2	3	1	6	5	4
Repair Cost**	1	3	2	4	5	6
Maintenance Cost**	1	3	2	4	5	6
Purchasing Cost	2	3	1	4	5	6
Patented Design	X			X	X	X
Lubrication Required		X	X	X	X	X
No Lubrication Required	X					
Requires Clean Air			X	X	X	X
Tapped Exhaust for leading away exhaust air	X	X	X		Z	X
High Temp		X				
Steam Pressure cleaning	X	X		X		
Concrete Application	X			X	X	

* Average Reading
 ** Lowest Number is best (Example: Piston lowest in air consumption, then Turbine Ball, Big Buster, SCRS & SVR)

GENERAL COMMENTS:

In general, electric vibrators are initially higher in cost than pneumatic vibrators; however, the operation cost is considerably less and the difference in price and installation cost is recaptured in a few months of operation. The electric units have the lowest noise readings, 60-70 dB, no more sound than an electric motor. The life expectancy is 2-3 times that of an air operated unit. The life of an air operated unit is, to a great extent, determined by the cleanness of the compressed air and the operating pressure. Maximum operating pressure is 80 PSI. Above 80 PSI, the life of the pneumatic vibrator diminishes rapidly. The dBA reading on piston vibrators is 80-110, on ball vibrators, 80-115. For a dBA reading of 60-80, choose a Turbine Vibrator for best results (some SVRLS models also have the lower dBA readings). The least air consuming are the piston vibrators, then the turbine, ball and SVR high frequency vibrators. As a general rule: for standard applications, limit your selection of vibrators to the SCR Electric Vibrator Line and the Turbine Pneumatic Vibrators. They will give you the latest in vibration technology and design with the lowest noise, the best life, the least maintenance, and the lowest energy consumption.

ELECTRIC VIBRATOR MODEL SELECTOR

ELECTRICAL DATA	MODEL								
	2P	4P	6P	8P	SPR	US	SFC	FC	SCR
115 volt 1 phase	X	X	X	X	X	X	X	X	X
230 volt 1 phase	X	X	X	X	X	X	X	X	X
Any voltage, 3 phase	X	X	X	X			X	X	
50 cycles	X	X	X	X	X	X	X	X	X
Continuous duty	X	X	X	X	X	X	X	X	X
Intermittent duty						X			
More than 20 stops & starts per hour. 3 phase ONLY	X	X	X	X			X	X	
More than 20 stops & starts per hour. 1 phase*	Z	Z	Z	Z	X	X	Z	Z	
Totally enclosed	X	X	X	X	X	X	X	X	X
Outside fan cooled							Z	X	
Open Workspace					Z	Z			
Built in overload protection. 1 phase	X	X	X	X	X	X	X	X	X
Adjustable speed					Z	X			X
Adjustable eccentric	X	X	X	X	Z	X	X	X	X
Decibel at 3' on A scale	60	60	60	60	48	90	62	62	65

* 30 starts max. 2P-200 and larger. 2P-75-1 and 2P-100-1 for run times longer than 10 sec., use 1:1 ratio.

APPLICATION

Outside	X	X	X	X	X	X	X	X	X
Water splash	X	X	X	X	X	X	X	X	X
Powder in air, dry	X	X	X	X	X	X	X	X	X
Powder in air, sticky**	X	X	X	X	X	X	X	X	X
High temperature	Z	Z	Z	Z			Z	X	X
Bins with coarse material	X	X	X	X	X	X	X	X	X
Bins with fine material	X	X	X	X	X	X	X	X	X
Bins w/lumpy or sticky mat.	X	X	X	X	X	X	X	X	X
Bins with stringy material		X	X	X	X	X	X	X	X
Bins w/powdery & sticky mat.		X	X	X	X	X	X	X	X
Packing coarse material		X	X	X	X	X	X	X	X
Packing fine material	X	X	X	X	X	X	X	X	X
Stringy-fluffy material.			X	X					
Chutes, plates & bowl feeders	X	X	X	X	X		X	X	X

** May require explosion proof unit

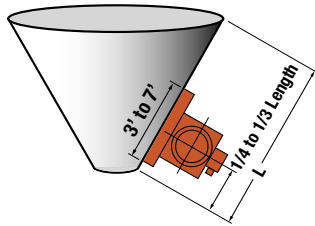
Z - See Instruction manual covering the model line shipped with vibrator or Consult VIBCO

The hydraulic vibrators are fast gaining acceptance but still primarily used on OEM equipment for food and related products.

See our 2024 General catalog for further information.

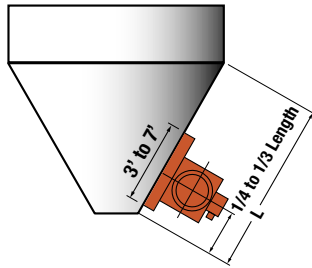
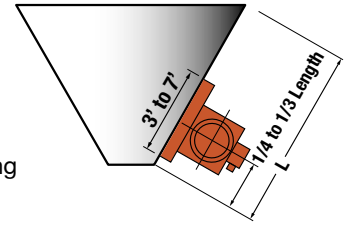
MOUNTING FEED BIN VIBRATORS

TYPICAL WELDED BINS



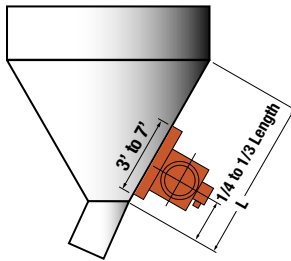
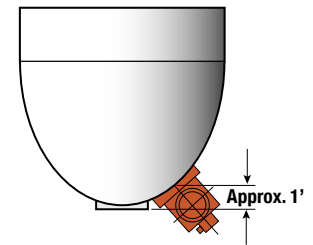
CONICAL HOPPERS:
Mount vibrator to hopper wall 1/4 to 1/3 the distance to the top. Should a second vibrator be necessary, it should be mounted diametrically opposite and approximately 1/2 way up the wall.

RECTANGULAR HOPPERS:
Mount as for conical hoppers on the centerline of one side. A second vibrator may be required if the complete cleaning of corners is desired.



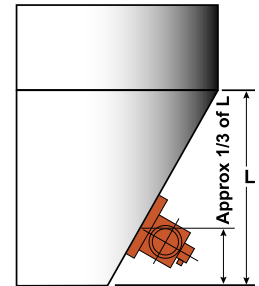
RECTANGULAR BINS WITH HOPPER BOTTOMS: Usually requires a larger force vibrator than above situations because of additional "head" load of material. Locate vibrator 1/4 to 1/3 distance of sloping section and mount.

PARABOLIC BINS OR HOPPERS:
Mount vibrator within 1 foot of each discharge opening and in-line with center of opening.



BINS WITH SLOPING CHUTE DISCHARGE:
Vibrator is mounted 1/8 to 1/6 up the bin wall that is contiguous with the underside of the chute. This lower mounting position puts vibrator close to bin discharge throat and assures vibration transference into chute.

BIN OR HOPPER WITH VERTICAL SIDE:
Mount vibrator on wall with least slope in similar manner as rectangular bins with hopper bottoms.



For instructions on stiffening of bins and mounting procedures ask for Vibrator Mounting Instructions.

NOTE: for other applications not covered here please consult factory for recommendations. This is a free service and without obligation to you after the purchase of a VIBCO vibrator. Go to www.vibcovibrators.com/data_inquiry.html and select the proper sheet (bins, air cannons, dumpbody, spreader, etc.) to give us the information that will help us to help you.



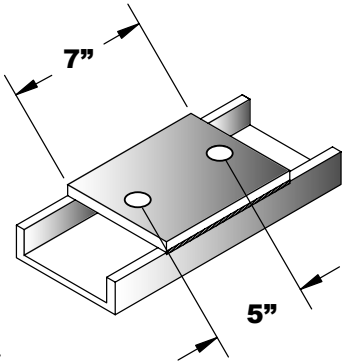
MOUNTING FEED BIN VIBRATORS

TYPICAL BOLTED PANEL BINS

Enhance your bin's performance with these expert installation steps for attaching a vibrator. Installing a vibrator on a bolted panel feed bin requires a different technique than on bins made from thin plate or heavier material. Please see the instructions below:



Employ a 4" length of channel as the mounting base for the vibrator (as depicted in Fig. 2). Alternatively, a 3/8" plate can be substituted for the channel iron if necessary.



NOTE: Ensure the channel height does not exceed the section of the bin where the outer diameter is over 24". This prevents the need for additional brackets and gussets on the angle iron. Following welding of the channel to the angle iron, proceed to bolt the vibrator securely and activate the power feed.

For feed bins with unique constructions not covered here, kindly provide a simple sketch or description to VIBCO, INC. We'll gladly furnish you with tailored instructions for your specific application.

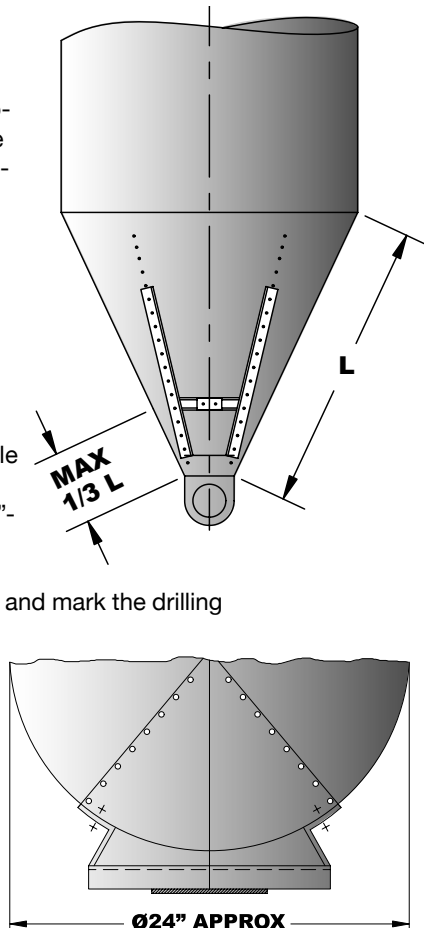
STRATEGIC PLACEMENT:

Selecting the optimal location is crucial. Ensure the vibrator sits no higher than one-third of the distance between the discharge opening and the bin's vertical side.

CUSTOM ANGLES FOR STABILITY:

Craft two pieces of angle iron (measuring 2" x 1 1/4" x 3/16") to span 24"-36" in length.

Align the narrow leg with the bolted bin joint and mark the drilling points to match the bolt distances. Drill holes slightly larger (1/16") than the bolt diameter to allow for clearance. Repeat the process for the adjoining joint.

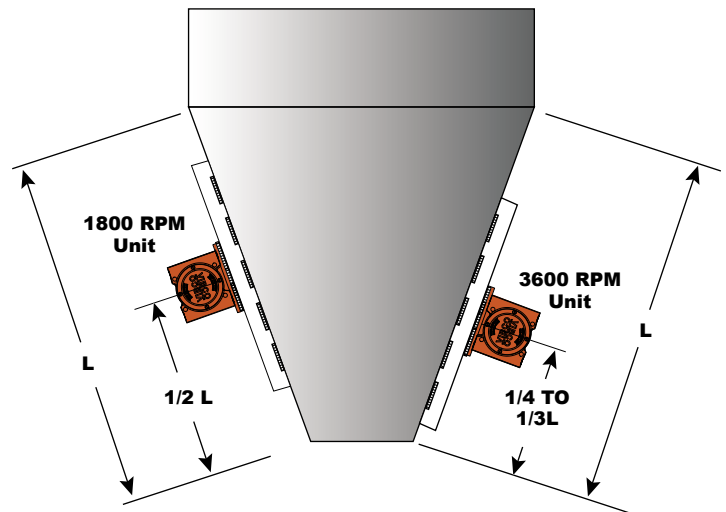


SECURE SETUP:

Once the angle iron is drilled, remove nuts and washers, then position the angle iron over the bolts. Secure it in place by reapplying the hardware and tightening it accordingly.

INTERFERENCE VIBRATION

For really tough materials, large bins, bins containing different particle sizes or bins used to store different materials, interference Vibration will move the materials—more efficiently. This uses TWO vibrators on the bin with different frequencies (speeds) — most commonly at 3600 and 1800 rpm.

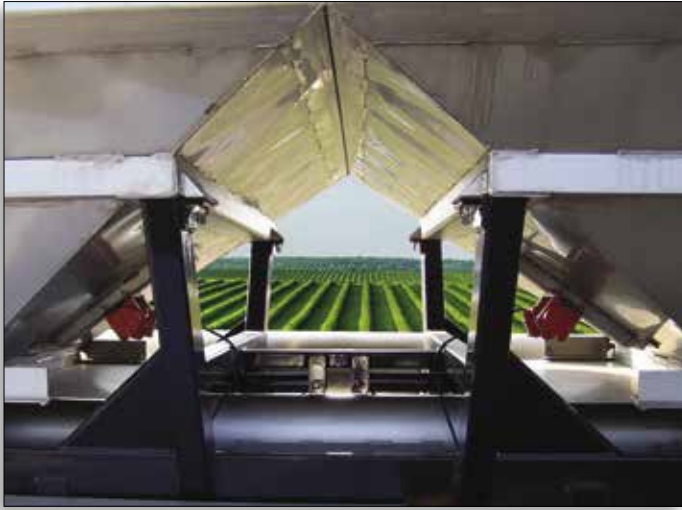


EXAMPLE:

A bin containing 15,000 lbs. of material needs 1500 lbs. of vibration force. Use two vibrators, one at 1800 rpm with 700 lbs. maximum force, and one at 3600 rpm with 800 lbs. maximum force. Mount the 3600 rpm unit closest to the discharge -- 1/3 up the bin side, and the 1800 rpm unit on the opposite side and 1/2 way up the bin side. The frequency of each vibrator will "interfere" with the other and create a simulated vibration ranging from 3600 + 1800 = 5400 VPM to 3600 - 1800 = 1800 VPM. The vibration will go through the material's "resonance" frequency and flow easily. Consult VIBCO for further details.

TRUCKS & TRAILERS

BIG BERTHA UNITS AND MORE



These 2P units (above) make unloading this hopper truck easier and faster, saving time and money. A vibrator can pay for itself in saved time, generally in just a month.

LEGENDARY BIG BERTHA

Setting the standard since its inception in 1990, the Big Bertha line remains an industry favorite. Keep an eye out for the trademark Red Mac truck, a testament to its reliability. For comprehensive details, request our Big Bertha brochure.



THE ORIGINAL BIG BERTHA

Reliable 12V & 24V Options • Adjustable Speed

Boasting 4,000 vibrations per minute, the DC-3500 model ensures efficient material flow from bins and chutes, facilitating swift truck and fertilizer trailer unloading. Featuring a unique design that prevents premature drive unit failure, the Original Big Bertha promises extended lifespan and minimal maintenance, making it a cost-effective investment. The unit can

now be used continuously which is a big advantage over units made by others.

XL BERTHA

Single Phase • Low Amperage Draw • 12 & 24 Volt • Versatile

Weighing just 14.5 lbs, the DC-700 delivers 700 lbs of force (3115 Newtons), perfect for diverse applications. Silent Electric Vibrators by VIBCO guarantee exceptional performance in doors or outdoors, regardless of weather and dust conditions. From bulk material flow enhancement to drum and bag packing, the XL Bertha offers a solution for every challenge.

HYDRA BERTHA

Quiet • Adjustable Speed • Continuous Duty • Hydraulic

Operate under pressures up to 3,000 PSI with ease using the Hydra Bertha. With options like the HLF-1300 providing up to 9,000 vibrations per minute, these hydraulic vibrators are ideal for farm and construction equipment. Our hydraulic vibrators operate in any position and are not affected by dirty, muddy or wet locations. Plus, weighing just 14 pounds, the HLF-700 ensures efficient material handling in any condition.

AIR BERTHA

Efficient • Pneumatic • Adjustable Speed • Continuous Duty

Move substantial material loads effortlessly with the Air Bertha. At 20 lbs (9.1kg) this piston vibrator capable of handling 4,000 to 10,000 lbs (1815 to 4535 kg) of material in a bin. VIBCO Piston Vibrators provide high impact and efficient energy transfer to ensure a smooth flow of material through fertilizer tenders, bins, chutes and other bulk material applications. Like all standard VIBCO products, our piston vibrators are available from stock for same day or next day shipping to insure your uninterrupted operation.

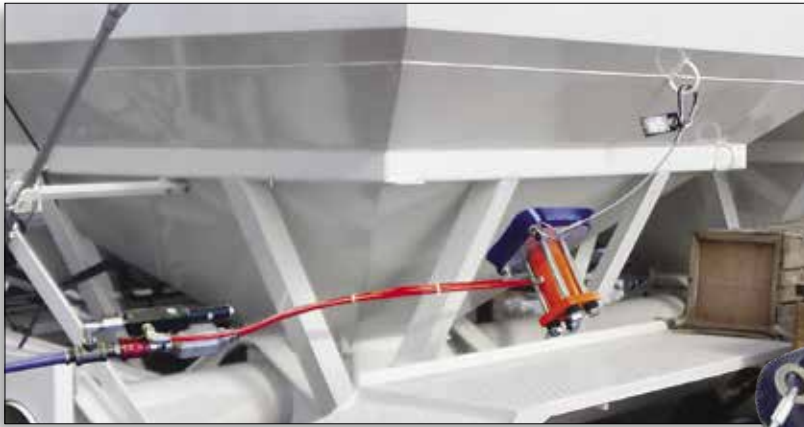
EXPLORE MORE OPTIONS

From truck to trailer, VIBCO offers a diverse range of vibration models tailored to your specific needs. Consult with us today, and let us recommend the perfect solution for your application.



TRAILA STIK-IT

EASILY MOVES FROM HOPPER TO HOPPER, BIN TO BIN



**TRAILA
STIK-IT™**

- High Impact Linear Force
- Securely attaches to hoppers on grain trailers and more
- High Temp Units Available
- Powerful yet Lightweight

Say goodbye to cumbersome unloading processes with the Traila™, meticulously crafted to lighten your load and simplify your operations. Designed with the agricultural market in mind, the Traila™ offers unparalleled efficiency in unloading trucks and tender hoppers.

With its innovative suction activated base, the Traila™ effortlessly moves from hopper to hopper, adapting to your needs without the hassle of bolts or welding. Experience the convenience of seamless unloading on various surfaces, including plastic tote bins and fiber drums, thanks to Traila's remarkable suction capability.

VIBCO's expertise shines through with a specialized air fitting that seamlessly integrates with your truck's compression system. Switching between bins is a breeze with just an air hose—activate suction with one straightforward switch and vibration with another. Requiring only 19 CFM of air at 80 psi, the Traila™ comprises a non-impacting 1-1/2" Pneumatic Piston Vibrator and an 8.75" x 4.75" Stik-It™ Vacuum Suction Mount, complete with a Control Valve, Lubricator, and Glad Hand style quick connect for easy attachment to the trailer's air system.

Available in two sizes to meet your specific needs Redesigned with a focus on reduced weight and enhanced versatility, the Traila™ delivers the optimal force and frequency to tackle even your toughest loads. Experience the future of unloading with Traila™—where efficiency meets innovation.



Alternate mechanical bracket to this trailer

Vibration will clear the bottom hopper of this truck and get it back in service quickly for another load.

For this application, use one of VIBCO's DC units like this DC-700



Also consider using one of VIBCO's DC units like this DC-3500, for enclosed dump trailers



PNEUMATIC & ELECTRIC UNITS CREATE EVEN FLOW OF MATERIAL

MODEL 55-2AB HIGH IMPACT PNEUMATIC PISTON VIBRATOR *Adjustable Speed • Continuous Duty*

At VIBCO, we take pride in crafting all our products right here in the United States, adhering to stringent quality standards. This commitment ensures that you receive nothing short of the finest piston vibrator available in the market. And just like all our standard offerings, our piston vibrators are readily available for same day or next day shipping, providing you with prompt access to the solutions you need.

VIBCO Piston Vibrators provide high impact and efficient energy transfer to ensure a smooth flow of material through bins, chutes, weigh batchers and other bulk material applications. VIBCO's Pneumatic Piston Vibrators are reliable, durable, and guaranteed to perform.

All VIBCO Piston Vibrators require lubricated air. VIBCO Pneumatic Piston Vibrators really hit home with a compelling blend of **Low Cost, Reliability, Power** and a **Wide Selection** of models, making them a favorite in the AG marketplace.

MODEL DC-700 ELECTRIC VIBRATOR

Designed to meet the versatile needs of the agriculture industry, the DC-700 boasts a single-phase operation with low amperage draw, available in both 12 and 24 volts.

VIBCO's Silent Electric Vibrators are engineered to tackle a myriad of challenges, from expediting bulk material flow in agricultural tenders and trucks to facilitating smooth operations through bins, hoppers, and chutes.



ELECTRIC VIBRATION

Discover the unparalleled durability and reliability of our electric vibrators, renowned for their exceptional longevity even in the most demanding environments. Unlike air-operated units, our electric vibrators typically offer 2-3 times the lifespan, ensuring prolonged efficiency over years of service. They excel particularly in cold temperatures, outperforming alternatives with their robust performance. Operating as quietly as standard electric motors, our vibrators prioritize employee well-being by minimizing noise, enhancing workplace comfort.

With a comprehensive lineup exceeding 150 models, VIBCO provides an electric vibrator tailored to meet every specific requirement. Our range includes adjustable speed and force options, heavy-duty designs, high-frequency models, and explosion-proof variants. VIBCO offers the ideal solution to fulfill your needs reliably.

NO GRAIN LEFT BEHIND MOVE GRAIN FASTER, SMARTER & SAFER



(above) Rathole created when grain sticks to the sides of the bin. Vibration breaks the static cling holding the grain in place.

Bid farewell to the days of laboriously hammering steel and aluminum bins to coax material into flowing smoothly. No more relying on hammers, mallets, or shovels to clear grain bins and rail cars—your solution lies in the power of vibration. Preserve your equipment and eliminate the headaches caused by dents, hammer rash, metal fatigue, bin deflection, and bin cracks, all of which chip away at your bottom line.

Grain sticking is often a result of friction between the material and the bin skin. Break through that friction barrier with the efficiency of vibration. By installing and utilizing a vibrator, you'll ensure a consistent and reliable flow of material through the discharge, whether in hoppers or rail cars. Moreover, you'll enhance the effectiveness of conveyors and pipes, maintaining continuous grain motion with minimal downtime, thereby maximizing profits.

Experience the efficiency firsthand as vibration technology saves valuable man-hours. What once required the strenuous effort of wielding a sledgehammer can now be achieved with a simple flick of a switch, drastically reducing clearing time and increasing productivity. Say hello to smoother operations and goodbye to unnecessary labor costs with vibration equipment tailored for the agricultural industry.



CE, CORROSIVE ENVIRONMENTS NOT AFFECTED BY DIRT OR WET LOCATIONS



Originally designed to meet the demanding needs of the plating industry, the CE-60 silent electric vibrator from VIBCO has proven its versatility and reliability across various sectors, including agriculture. Engineered as a cost-effective alternative to steel and cast iron housings prone to corrosion in corrosive environments, the CE-60 has become a staple in agricultural settings, where it remains unaffected by fertilizers and farm chemicals.

Crafted with stainless steel hardware and enclosed to withstand exposure to wet and corrosive conditions, the CE-60 ensures uninterrupted operation even in the harshest environments. Its durable injection-molded composite construction guarantees longevity, while its ability to deliver up to 100 lbs of centrifugal force at 3600 vibrations per minute ensures precise and controlled flow of all types of materials.

Operating on 115VAC at 50 or 60Hz and drawing just 0.3 amps, the CE-60 boasts oversized bearings for extended lifespan and can run continuously without compromise. For added versatility, consider the SCR-60 model, equipped with an adjustable speed controller to suit your specific application needs.



At VIBCO, we understand the urgency of your operations. That's why we offer same-day or next-day shipping on all our products, ensuring minimal downtime and maximum productivity. With our easy mounting system, you can have your CE-60 up and running in no time, experiencing the benefits of enhanced material flow and efficiency firsthand.

VIBRATION PREVENTS INJURY PRIORITIZE SAFETY IN AGRICULTURAL OPERATIONS



When it comes to grain bin accidents, every second counts. According to the US Department of Labor, individuals have a mere 2 to 3 seconds to react, and fatalities can occur in less than 30 seconds. The dangers of entering a grain bin cannot be overstated, with employees risking their lives each time they step inside. However, vibration technology offers a critical solution, keeping materials in motion and eliminating the need for risky manual intervention.

Whether it's cleaning out the bin or addressing issues such as clogged or spoiled grain, entering a silo poses significant hazards. Solid masses or crusts of grain can form, potentially collapsing and endangering anyone inside. Resolving these issues typically involves unloading the bin, but regular use of vibration technology can prevent such complications, ensuring smooth and efficient material flow. Trust in the power of vibration technology to enhance efficiency while prioritizing safety above all else.



VIBCO RAIL BOSS

RAILROAD SHAKERS



- Patented
- Powerful
- Quiet
- Low Maintenance

RB-6500 - LATEST IN RAILROAD CARSHAKER TECHNOLOGY

The RB-6500 with its unique inflatable air bag, is able to transfer more vibration force to the car. That vibration will clear out your toughest loads. Grains, feed, pellets, fertilizer, and more are no match for the RB-6500 vibration. Your railroad car will be cleared quickly and made ready for its next load. More importantly, the full load will be delivered with no waste left behind in the rail car.

AS EASY AS 1, 2, 3

1. Easy in – just drop the RB-6500 unit into the dovetail bracket welded onto the hopper on the railroad car. The unit will fit easily with some play.
2. Activate the rubber air bag. The air pressure will wedge the specially designed male wedge bracket into the dovetail bracket.
3. Now start the vibrator – there will be *no loss* of vibration force – all will be directed into the hopper, – *no loss* of force due to a loose vibrator, and – *no wear or noise* due to a loose vibrator.

When the car is unloaded, simply turn off the air pressure to the vibrator to stop it. Deflate the air bag and the unit is now loose and can easily be lifted from the bracket - no hammering out needed!

ELECTRIC MODEL



ELECTRIC MODEL VMW ON WEDGE BRACKET

The VIBCO Model VMW is made up of a 2P or 4P Vibrator with a Wedge style bracket. These heavy duty electric vibrators, Model 2P (3600 RPM) and Model 4P (1800 RPM) produce high torque and amplitude.

HYDRAULIC MODEL



HYDRAULIC MODEL HLF-3500 WEDGE BRACKET

The small version of the Big Buster is a small and powerful high speed 9000 RPM vibrator which offers an inexpensive solution to many material handling problems. Creates 3500 lbs. force with 4000 vibrations per minute.



Vibration assists with material flowing into the railroad car as well as for unloading.



RAILROAD CARSHAKERS

PNEUMATIC, ELECTRIC & HYDRAULIC IN STOCK

Unloading rail cars is a dangerous, dirty and slow job. Using VIBCO vibration products helps the material flow faster and more consistently. Most of all, they clear the hopper cars completely so you get all the product. A common misconception is free flowing material like grain does not require vibration but VIBCO Railroad Carshakers knock out every grain. This is the kind of efficiency you can put in the bank!

Depending on your usage, our railroad car vibrators generally pay for themselves within the first month of operation. Shown here are just a few of the many products VIBCO manufactures to clear out Rail cars. They can attach by many methods depending on the rail car style. The most common is the wedge style which fits into the female wedge pocket on many hopper rail cars.



WEDGE TYPE MODELS



MOST POPULAR PNEUMATIC

SVRWS-5500, SVRWS-6500

These High Frequency pneumatic units are the best choice of railroad carshakers for materials with moisture content, they will move the most stubborn materials. The patented wear-plates cut maintenance costs by 75%.



SILENT PNEUMATIC CCW-5000

The "SILENT" Railroad Carshaker produces 70-75 dB (no more noise than an electric motor). The CCW-5000 uses the patented turbine gear to produce up to 5000 lbs force. It comes with a Quick-Disconnect hose fitting and a hold down bracket.



Quick-Disconnect hose fitting



PNEUMATIC MODEL BVST-4400 WEDGE BRACKET

These have been the work horses for a long time and are the most powerful of the Railroad Carshakers. They will move the most stubborn materials.



PNEUMATIC LUG STYLE MODEL SVRL-5500 ON CLAMP BRACKET

VIBCO's high frequency, high force vibrators can be mounted in many locations. Portability, speed and force adjustability (by regulating air supply) makes these units the most versatile on the market.

WEDGE TYPE MODEL

PNEUMATIC CCW-2500 HOBO

The Hobo helps clean out the corners in the dead flow zones of the rail car. For example, your grain cost 44 cents a pound and you unload 2 rail cars a week. If you leave 100 pounds in a hopper, a two hopper rail car gives you a loss of \$88. The pay back for a HOBO is under two months – an incredible return on investment. The Hobo Heavy Duty Pneumatic Turbine Vibrator is the lightest weight railroad car shaker available at just 24 lbs! It works great for rail car clean-out with high force output and is virtually silent.



Shown with optional hold down bracket for securing wedge into female pocket

STIK-IT™ BRACKETS

PNEUMATIC SVRFS-4000AL with Stik-It™ Mount

- EASY to install in the field!
- PORTABLE moves easily from car to car
- SECURE suction, best vibration transfer

The suction cup can be attached to an exact spot on the Railroad Car Hopper where material hangs up, and apply all the force that is needed to get it moving. Also ideal for cleaning out any material stuck in a hopper.



Unload Railroad Hopper Cars Faster, Cleaner with Less Labor

AIR CANNON

NOT AFFECTED BY DIRT, WET & MUDDY LOCATIONS



Feeder operation - Air Cannon assists the flow of grain into screw auger

HOW IT WORKS

A super quiet blast of air from a VIBCO Air Cannon can prevent material from sticking to the bin walls as shown above.

Our revolutionary piston valve will work safely and effectively to blast out clogs using normal plant air - just 80 to 125 PSI is required. Vibco's Air Cannon safeguards your workers who previously were required to clear out the bin manually. It can handle many materials like wood chips, pellets, grain, cattle feed and any fine, coarse, granular, spongy or stringy materials.

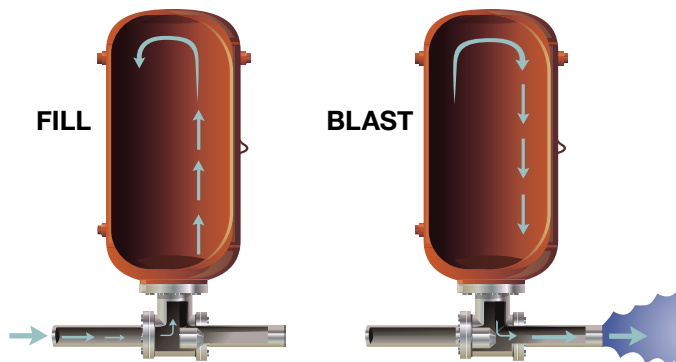
VIBCO's latest Air Cannons have been designed to be serviced where they are mounted! No longer will you need to bring in a crane and take them down. VIBCO's exclusive Exterior Valve is held in place with easy to remove bolts so that it can be serviced without taking down the air cannon tank.

FEATURES OF THE AIR CANNON

- A VIBCO Air Cannon creates no flames or sparks.
- It can be blasted when needed up to every few seconds.
- Our Cannons need no special compressor - they use regular plant air at 80-125 PSI.
- VIBCO's tanks are certified to conform to "UNFIRED PRESSURE VESSELS" code.

REVOLUTIONARY EXTERNAL VALVE




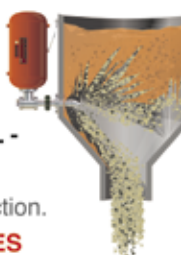
For easy servicing and cartridge replacement



INTERNAL VALVE



PROBLEMS CORRECTED BY VIBCO AIR CANNONS

 <p>SOLVES BRIDGING - Material hanging at lower slope is blasted away.</p> <p>INCREASES PRODUCTION - Materials flow freely allowing manufacturing to proceed without a hitch.</p>	 <p>SOLVES RATHOLING - and dead storage.</p> <p>INCREASES SAFETY - Your employees will not have to venture into the bin to clear stuck materials.</p>
 <p>SOLVES MATERIAL STICKING TO BIN SIDES - A common flow problem.</p> <p>INCREASES PROFITS - The entire bin contents are delivered to production when needed and without loss.</p>	 <p>SOLVES ARCHING OF MATERIAL - At end or above the sloping section.</p> <p>INCREASES EFFICIENCY - Maintenance work will be reduced and your final products will be delivered quickly, smoothly, and conveniently.</p>

- Our Cannon's are inexpensive compared to other dischargers such as high pressure blast systems, air pads & vibrating bin bottoms.
- Mounting is simple - No structural reinforcement is needed. The air blast does not shake the structure, only the material.
- VIBCO's AIR CANNON is economical - takes 1/25 of energy used by air pads or other systems.
- VIBCO's AIR CANNON is SILENT despite its name - all force and the air bang, like a back-firing truck, is absorbed by the material in the bin, which acts as a muffler, and the only sound heard is a mild "puft" - way below the OSHA requirements.
- VIBCO's Air Cannon can be used in any bin - square round, rectangular, steel, and others!
- VIBCO's Air Cannon handles a variety of temperatures, from freezing to heat wave.



24/7 TECH SUPPORT

We are here for you when you need help! 401-539-2392. Our sales Engineers are highly experienced in the science of vibration and are happy to give you advice on where to mount the vibrator for best results and how to mount the vibrator to protect your bin and to get the outcome you want. VIBCO employs highly experienced engineering staff members who have seen it all and know how to correct the toughest flow problems.

We also work with universities throughout New England and get highly qualified master's candidates to work as interns, choosing the very best to stay. Having experienced engineers mentor the younger ones keeps our wealth of knowledge alive and ensures there will always be someone who understands your specific problems.



ENGINEERED MOUNTING SYSTEMS, BRACKETS, & ACCESSORIES

To ensure VIBCO vibrators work correctly and produce the force you need to break up the toughest obstructions, we recommend using one of our engineered mounting systems. Our pre-welded mounting channels and plates will deliver appropriate vibration while protecting your bins and hoppers from excessive wear. Using your specifications for the mounting material bin shape, operating temperature, and thickness, our engineers will give you a proper and easy to install option.

With over 1800 separate products, Vibco has a truly wide variety of accessories. We offer mufflers, food grade units, cables



and straps to hold a vibrator securely in case of weld failure, and much more. We have specialized brackets for every application including pipes and high temperature applications.



BOLT PATTERNS FOR COMPETITIVE UNITS

MOUNTING PLATES, CHANNELS, AND MOUNTING KITS WITH CHANNEL IRONS ARE AVAILABLE.



VIBCO's versatile bolt hole patterns are completely compatible with other brands. Simply call to purchase a superior VIBCO vibrator and let us know what bolt pattern you need to match.

We will get you the proper unit for your application.

More importantly, we will give you the proper mounting hardware to get the vibration you need, where you need it.

FROM FIELD TO TRUCK TO SILO TO TRAIN AND BEYOND

VIBCO VIBRATION KEEPS GRAIN MOVING

#VIBCO SOLUTIONS

RAILROAD CAR SHAKERS

- ▶ Largest Line, Light and Portable
- ▶ Electric, Pneumatic or Hydraulic
- ▶ Silent Models
- ▶ Catalog #9126

BIG BERTHA: Dump Body Vibrator

- ▶ Dump Body Vibrators
- ▶ How-to-Select Guide
- ▶ Drawing and Dimensions
- ▶ Catalog #BB08919

AIR CANNONS

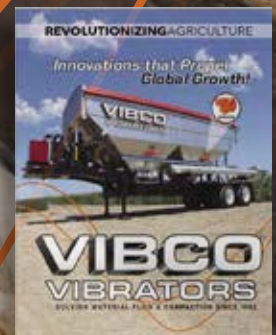
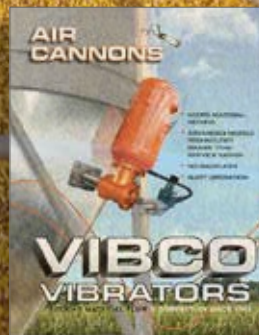
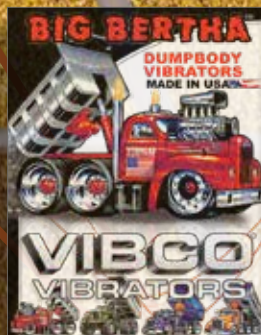
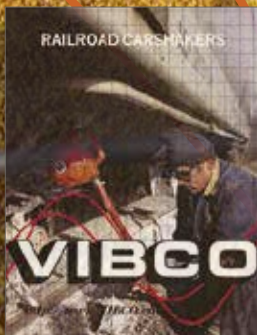
- ▶ Patented Dual Piston Design
- ▶ Uses Normal Plant Air
- ▶ Install in any position
- ▶ Catalog# CAT_P_AC_09919

VIBCO MASTER CATALOG

- ▶ 80 pages of detailed information
- ▶ Electric Hydraulic, & Pneumatic Models
- ▶ Application Photos
- ▶ Technical Data
- ▶ Catalog #GC03124

FERTILIZER VIBRATION EQUIPMENT

- ▶ Fits all competitive Bolt Patterns
- ▶ Corrosion Resistant
- ▶ Wide Variety of Vibration products
- ▶ Catalog# CAT_V_FERT_10024



VIBCO®

VIBRATORS

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