

VIBRATION **SOLUTIONS**

4 SELECTION
GUIDE

2024
VIBCO
60
YEARS

VIBCO®
VIBRATORS

SOLVING MATERIAL FLOW & COMPACTION SINCE 1962

VIBCO EST. 1962

DISCOVER THE EXCELLENCE OF VIBCO PRODUCTS

Our vibrators are engineered with precision by our qualified engineers, drawing from *more than 60 years of experience* in the field. We stay ahead of the curve, incorporating the latest developments in vibration engineering to create top-notch designs.

But it doesn't stop there. Our highly trained craftsmen and women bring these developments to life, crafting the most reliable and long-lasting vibration equipment on the market. With their expertise, our products surpass industry standards, delivering unmatched durability and performance.

Join The Vibration Nation and elevate your solutions to new heights. Trust VIBCO for quality engineering, built to last.



Our Mission

Our mission is clear: "Same Day - Next Day." When you place an order, we will ship it out the same day or the next day so it's in a truck and on the way to you. It's not just a promise; it's our True North.*

At VIBCO, we are dedicated to achieving 100% Employee Engagement, Innovation, Throughput, and Quality. We believe in setting the industry standard. Being first in everything we do is our passion. From pioneering new techniques and materials to adhering to OSHA Guidelines and Ecology Programs, we lead the way. You can trust VIBCO to always stay ahead, ensuring our products are not only cutting-edge but also environmentally responsible.

We know time is money so we will get you up and running with the most comprehensive and reliable line of vibration products on the market. Every unit undergoes rigorous testing before leaving our facility, ensuring unwavering quality and performance.

And unlike others, we value personal connection. When you choose VIBCO, you can expect to speak with our knowledgeable team directly—no answering machines or automated chat bots, just real conversations.

Elevate your expectations and experience the VIBCO difference. Discover the power of true dedication to excellence.

VIBCO: Setting the Standard in Vibration Products.

Bolt Patterns fit Competitive Units

VIBCO's versatile bolt hole patterns are compatible with other brand patterns. 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 - and will even match metric thread configurations.



Over 30 US Patents

Most of VIBCO's products are manufactured under one or more of the following U.S. Patents:

3,790,137	3,638,914	3,672,639	
3,945,246	3,870,282	3,932,057	3,938,905
4,407,403	4,042,102	4,280,616	4,389,120
4,583,414	4,424,718	4,425,813	4,472,980
5,439,314	4,653,927	4,590,814	5,143,256
6,349,817	5,672,027	5,580,234	6,058,588
7,458,547	6,837,648	6,857,773	7,195,217
	7,900,884	7,955,050	9,234,316

Applications for these patents have also been made in most other countries



Our FREE 10 DAY TRIAL

Since 1962 over 1 million customers have successfully participated in our free trial program and proven to themselves that VIBCO products are a great choice for vibration equipment. Call VIBCO and we will help you get your vibrator properly mounted for exceptional long service life and terrific transfer of the vibration force - **NO RISK TO YOU!** -

ASK FOR ANY ONE OF OUR STANDARD UNITS FOR A 10 DAY FREE TRIAL! Your only obligation under this free trial is to absorb the freight charges. To get your Free Trial Unit, speak to our engineers **call 1-800-633-0032** and send us your purchase order marked: **"For Free Trial"** and **MAKE IT RIGHT!**

MADE IN USA 
At 75 Stilson Road, Wyoming, Rhode Island



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USE THE CONVENIENT TABS AT THE
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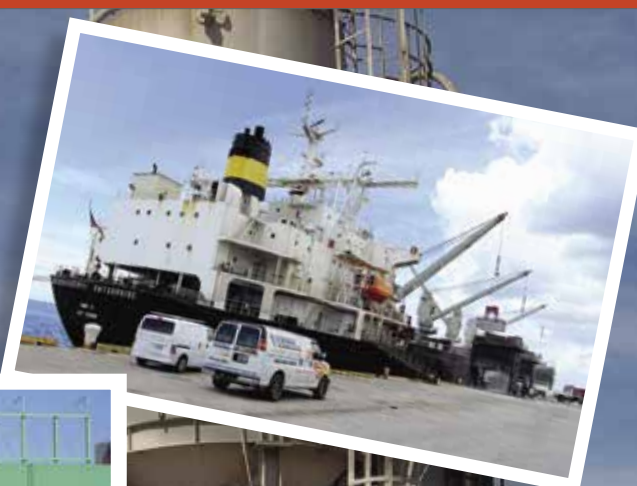
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Form, Function, & Fit are the same for all housings; Castings, Aluminum or Advanced Composite Materials

VAN VISIT



VIRTUAL VAN VISIT™

VIBCO Virtual Van Visit™ (VVV): Offers Personalized Solutions at Your Fingertips!

When our actual vans can't physically be there, our experienced technical team brings their expertise to you through a VIBCO Virtual Van Visit™ (VVV). Only by seeing the problem clearly, can our engineers address the issue(s).

It's a convenient way for us to get a first-hand look at your vibrator application. Simply send us photos of the area, and our team will provide you with a comprehensive report, complete with step-by-step instructions for quick and easy installation. VVV has been helping our customers for over 40 years.

Why is a photo so important? By seeing your situation firsthand, our technical team can provide tailored recommendations. With decades of vibrator installation, selection, and sizing experience, our engineers can maximize the benefit you receive. It's like having our experts on-site with you, even from a distance.

Photos allow us to understand your production area, including size limitations, equipment setup, obstructions, and other

factors that impact your installation. While drawings are helpful, a picture truly speaks volumes, conveying crucial information efficiently.

To ensure convenience, we accept photos in any standard format (e.g., .jpg, .png, .tif, .pdf, .ai, and even camera raw or Photoshop files). Simply send your photos to info@vibco.com, and our team will get to work promptly. You can expect to receive an initial report within a few hours of submitting your photos.

We understand that physical visits may not always be feasible, which is why VIBCO offers the VVV as a quick and efficient alternative. Our aim is to provide you with the information you need when you need it, without waiting or scheduling conflicts.

Experience the benefits of VIBCO's VV for yourself. By receiving a personalized solution tailored to your specific needs, you'll save both time and money. Don't hesitate—get started today!

100% FREE of charge

Send your photos to sales@vibco.com and let our experts guide you to the perfect vibration solution.



LEAN TOURS One Click, One Breath, One Motion, One Second, One Team

Experience the Power of Positive Change with VIBCO

Since 2012, we have proudly hosted over 9,000 individuals on transformative tours aimed at introducing, teaching, and encouraging successful lean processes for positive change within businesses. At VIBCO, we are driven by a purpose that extends beyond manufacturing exceptional vibration products.

Our employees are at the heart of our operations, engaged in every step of the manufacturing process. Each day begins with our "Morning Stretch" meetings, where we not only engage in gentle stretching exercises to prepare ourselves for the day but also foster

continuity, set goals, and reinforce our "good to great" philosophy. We believe in the power of collective improvement, encouraging employees to "Shake the Waste" by sharing daily improvements and innovations. We also make time for "Gratefulness," acknowledging and appreciating how our fellow employees contribute to individual and collective success at VIBCO.

As a strengths-based organization, we recognize and maximize the unique characteristics of each employee. Through assessments such as Clifton's Strengths Finder, we ensure that individuals' strengths are incorporated and balanced throughout our office and manufacturing floor. By harnessing the power of our employees' strengths, we create a dynamic and collaborative work environment that fuels our success.

At VIBCO, our commitment to continuous improvement is ingrained in our culture. We have a natural inclination to "Fix What Bugs You." Every minute of every workday, we strive to distance ourselves from the competition by providing the most diverse and innovative product line. Our dedication to staying ahead, embracing

change, and consistently improving sets us apart as industry leaders.

Experience the transformative power of VIBCO. Join us in embracing positive change, maximizing strengths, and enjoying the benefits of a culture driven by continuous improvement. Discover the most diverse and innovative vibration product line in the market today.

Choose VIBCO: Empowering Positive Change, One Vibration at a Time.



VIBCO's CEO, Karl Wadensten, introduces a tour group to our Lean, Strengths-based Manufacturing before the tour begins



Machinist, Dave Bragonier, shows a tour participant how to run one of our state-of-the-art Okuma's.

THE VIBRATION NATION We are the Vibration Nation™ living by our "True North: Innovation, Throughput, Quality, Same-Day: Next-Day" philosophy.

SET UP A LEAN TOUR TODAY!

1-401-539-2392 tours@vibco.com

THE VIBCO GUARANTEE

WE GUARANTEE OUR VIBRATORS TO PERFORM per specifications or they can be returned for full credit or exchanged.

PLEASE NOTE: For Vibrators to function as noted in this catalog, they need to be mounted properly. Add a **VIBCO Mounting System** to your purchase for better effectiveness. It will take the guesswork out of applying vibrators properly while saving you time and money.

Please contact a VIBCO sales and engineering representative with your specifications to receive accurate product selection and mounting instructions. (sales@vibco.com)

VIBCO commissioned a study* to determine how we can create more sustainable manufacturing processes. One key finding was that, by eliminating paint, we could reduce our environmental impact and reduce handling while actually improving the durability and sustainability of our vibrators. We are pleased to offer a non-corrosive cast finish as well as our water-based Eco-friendly painted finishes, stainless steel in two grades, aluminum and composite housings on many of our units. **We are dedicated to environmental improvements** that foster a sustainable future and lead to social and economical improvements in the community we do business.

*Cost and Environmental Impacts in Manufacturing: A Case Study Approach. Nörmann, N. August 2015



VIBCO holds the patent for the **Original Silent Turbine Vibrator**. This logo, next to the Technical Data Chart assures you that you are dealing with the original innovator!



CATALOG CHANGES:

Due to continuous improvement in design and performance VIBCO dimensions and data are subject to change without notice.

APPLICATIONS:

Every vibrator application is different. The solutions presented in this catalog should not be considered as instructions or recommendations. Please contact VIBCO for assistance selecting a vibrator for your specific application.

ENGINEERING:

We are happy to provide a certified dimensional drawing. Please contact a VIBCO sales engineer for the most current product information.

PNEUMATIC VIBRATORS ON THE JOB APPLICATIONS



Above: Each time the hopper needs to empty, the VIBCO **VS-320** Pneumatic Turbine vibrator (as seen on page 10) is activated to ensure a complete clearing of the hopper. Its walls will stay totally clean and the correct amount of material will be consistently dispensed.



Above: Mounting this **50-2** unit (as seen on page 24). When mounted on a hopper it will help to create consistent flow of material. It aids in reducing overall batch times on the scale and in dispensing an accurately measured, consistent batch. No more labor time wasted banging on the hopper walls to release stuck material.



Above: The patented **SVR** design (page 30-31) shown in the dust collectors of this power plant, have a dB reading of 95-110. They are also available in a silent version which brings the dB down to 80-85.



Above: A **PC-3500 Big Buster** (see page 34-35 and 58-59) shakes a railroad hopper car with it's high force and low frequency. It easily clamps to the railcar and can be moved from place to place.

VIBRATION 101

CHOOSING THE CORRECT VIBRATOR

When looking for a vibrator, you typically need to consider several factors to ensure that you choose the right tool for your needs.

Here are some key aspects to look for:

VIBRATION

Method: Contractors may choose between internal vibrators (also known as immersion or poker vibrators) or external vibrators.

Internal vibrators are inserted into the concrete mix, while external vibrators are attached to the outside of the concrete formwork. The choice depends on the specific application and the type of concrete being used.

VIBRATION FREQUENCY & AMPLITUDE:

The frequency and amplitude of the vibrator are important considerations. Higher frequencies generally work well for

lower-slump concrete mixes, while lower frequencies are preferred for higher-slump concrete. Contractors select the appropriate frequency and amplitude based on the specific concrete project requirements.

POWER SOURCE:

Vibrators can be powered by electricity, battery, or air. The power source preference depends on the availability of electricity or compressed air on the job site, as well as the desired portability and convenience.

SIZE & WEIGHT:

The size and weight of the vibrator can impact its maneuverability and ease of use. Contractors often look for lightweight and compact models that are comfortable to handle and transport.

DURABILITY & BUILD QUALITY:

Contractors want to invest in a vibrator that is built to last and withstand the demands of construction sites. They look for rugged construction, sturdy materials,

and reliable components that can endure the vibrations and tough conditions.

ERGONOMICS & HANDLE DESIGN:

Comfortable ergonomics and a well-designed handle can enhance the user experience, reduce fatigue, and provide better control during operation. Contractors consider factors such as grip, handle shape, and vibration dampening features.

NOISE & VIBRATION LEVELS:

Contractors may seek vibrators that generate lower noise and vibration levels to ensure a more comfortable working environment and comply with safety regulations.

BRAND REPUTATION & WARRANTY:

Contractors often consider the reputation of the manufacturer or brand, as well as the warranty provided. A trusted brand with a good track record of customer support and reliable products is preferred.

PRICE & VALUE FOR MONEY:

Cost is a significant factor in any purchase decision. Contractors evaluate the price of the vibrator in relation to its features, durability, and performance to determine if it offers good value for money.

LET VIBCO HELP

Fill in the appropriate Data Inquiry Sheet, add a few photos showing the problem and Vibco will recommend the appropriate solution. Scan here to get to the Data Inquiry Sheets or go to: https://www.vibcovibrators.com/data_inquiry.html



ORDERING & SHIPPING INFORMATION

MOUNTING SYSTEMS FOR BEST FORCE TRANSFER

At VIBCO, we take pride in providing an extensive array of top-notch mounting hardware and brackets, meticulously designed to accommodate any mounting configuration you require. Whether it's a straightforward installation or a complex setup, our products are tailored to suit your needs.

Don't hesitate to reach out to one of our highly experienced application engineers. They are ready to engage with you in a personalized consultation, guiding you towards the optimal mounting solution for your specific situation.

Embrace the power of precision and efficiency with VIBCO's mounting solutions. Contact us today and witness the difference firsthand!

ALTERNATE BOLT PATTERNS TO FIT YOUR INSTALLATION

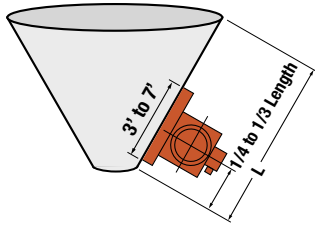
Experience seamless integration with VIBCO vibrators, designed to fit a wide range of mounting configurations. Reach out to our expert team at VIBCO to swiftly discover the perfect solution for attaching our superior units to your existing bracket. Our dedicated application engineers are eager to assist you in identifying the optimal mounting approach tailored to your specific needs. Don't hesitate to get in touch and take the next step towards maximizing the efficiency and effectiveness of your operations with VIBCO's top-notch vibrators.

SHIPPING PARTIAL SHIPMENTS, ESTIMATES

At VIBCO, we provide shipping cost estimates to assist you in planning your purchases. However, please note that these estimates are subject to change due to various factors such as fluctuations in gas and diesel prices, distances traveled, and other carrier charges. The shipping quote is intended as an approximation and may not reflect the final pricing.

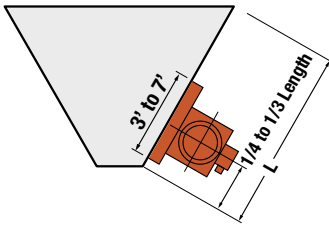
To ensure prompt delivery of your equipment, VIBCO may arrange partial shipments as needed. If you prefer to have your entire order shipped together, kindly inform us, and we will accommodate your request to the best of our ability.

MOUNTING VIBRATOR ON BINS



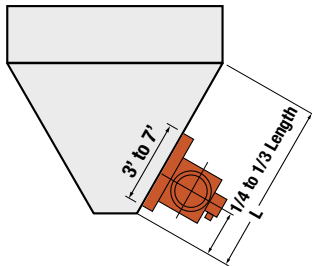
1. CONICAL HOPPERS:

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.



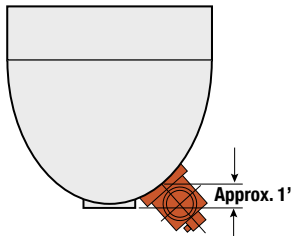
2. RECTANGULAR HOPPERS:

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. Mount as per paragraph 1.



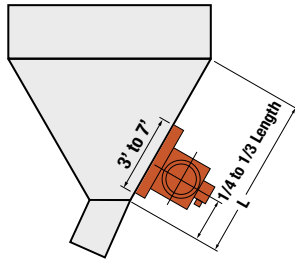
3. RECTANGULAR BINS WITH HOPPER BOTTOMS:

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 as in paragraphs 1 & 2.



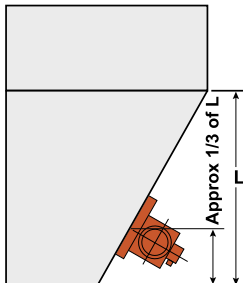
4. PARABOLIC BINS OR HOPPERS:

Mount vibrator within 1 foot of each discharge opening and in-line with center of opening.



5. 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.



6. BIN OR HOPPER WITH VERTICAL SIDE:

Mount vibrator on wall with least slope in similar manner as with Example 3 (page 79), 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.

HOW TO SELECT THE PROPER VIBRATOR IN 3 EASY STEPS

1. DETERMINE NEEDED VIBRATOR FORCE FOR YOUR APPLICATION
2. FIND AVAILABLE VIBRATOR MODELS
3. SELECT ELECTRIC, PNEUMATIC OR HYDRAULIC OPERATION.

1. DETERMINE NEEDED VIBRATOR 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 paragraph 2.

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 under Paragraph 2.

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 section 2), 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.)

B. VIBRATING TABLES

1. PACKING MATERIAL

Dense materials respond best to high frequency vibration (3600 RPM or more) while light, fluffy or flaky materials respond best to low frequency vibration (1800 RPM or less).

For packing or settling materials, use a vibrator with an impact force of 1.5 to 2 times larger than the weight of the material plus container. Find suitable vibrator under Paragraph 2.

C. VIBRATING SCREENS

Rule of Thumb: for self-cleaning screen use a vibrator with a centrifugal force (impact) four (4) times the weight of the material plus the weight of the screen.

NOTE: Coarse and lumpy materials respond best to 3600 VPM (vibrations per minute), powdery and dry materials, 1800 VPM, sticky and wet materials, over 3600 VPM.

D. CONSOLIDATING CONCRETE

Rule of Thumb: For 3" "slump" concrete use a vibrator with the same force (impact) as the weight of concrete and form. For 1-2" slump concrete, an additional 30-50% impact is needed. For dry mixes (0-slump) add 100-200%.

NOTE: FOR ADDITIONAL SIZING INFORMATION, SEE PAGES 66 for suitable brackets.

Find suitable vibrator under PARAGRAPH 2, SEE PAGE 78. Ask for Bulletin 0103 and 8401.

E. RAILROAD CARSHAKERS: SIZING, SEE PAGES 58-60.

F. MATCH PLATE - FOUNDRY: SIZING, SEE PAGES 20-21.

G. FOR SPECIAL APPLICATIONS AND QUESTIONS CONTACT VIBCO FOR FREE RECOMMENDATION.

VIBRATOR SELECTION (cont.)

2. FIND AVAILABLE VIBRATOR MODELS

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

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 EXAMPLE 3 to make final selection.

Vibrator Force or Impact lbs.	ELECTRIC MODELS										PNEUMATIC MODELS				HYDRAULIC MODELS		Bin Skin Thickness, Max
	2P page 42-43	4P page 44-45	6P page 44-45	8P page 44-45	SPR page 40-41	US page 46-47	SFC page 51	FC page 51	SCR page 38-39	TURBINE page 8-21	BALL page 22-23	PISTON page 24-29	SVR page 32	BIG BUSTER page 34-35	HYDRAULIC page 34-35	BIG BUSTER page 34-35	
10																	20 Ga.
20					SPR 20 & 21				SCR -50/60	BVS-60, VS, BVS-100							20 Ga.
40	2P-75				SPR 40				SCR-100	BVS-130 VS, BBS-130							1/16
60					SPR 60					BV-60, BB, V-100							1/8
80	2P-100				SPR 80	US-100		FC-100		BV-130, BB, V-130					B-130		3/16
100							SFC-100										1/4
150																	5/16
200		2P-200	4P-350	6P-300		US-450	SFC-300			BBS-160							5/16
300										BVS-190, VSI90							3/8
400			6P-500	8P-500				FC-400		BVS-250, VS-250	BVS-160				B-250		3/8
500	2P-450								SCR-1000	BV-250, V-250	BVS-190, V-190	1-1/2L or LS, 2S					7/16
600										BV-320, V-320		1-1/2					7/16
700						US-900				BV-380, V-380		2, 2LS					1/2
800					6P-1000					BVS-380, VS-380		2L, 3S		PF-800			1/2
900		2P-800	4P-1000							BVS-510, VS-510		3, 3LS		PF-1200			1/2
1000						US-1600											1/2
1200																	1/2
1400	2P-1700																3/4
1600																	3/4
2000	2P-2500	4P-3000															3/4
2500																	3/4
3000																	1
3500																	1
4000																	1-1/4
4500																	1-1/4
5000																	1-1/4
6000																	1-1/4
7000																	1-1/4
8000																	1-1/4

3. SELECT ELECTRIC, PNEUMATIC or HYDRAULIC OPERATION

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 Construction					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
Powder in air metallic**	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 mtl	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 mtl		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					
Concrete	X					X			X
Screens		X	X	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									

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.

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

For additional selection considerations, see table for electric vibrators and pneumatic vibrators located on this page. Also look up the pages for each specific vibrator for additional information.

To continue with our example: **Choose electric model 2P-450 or 2P-800** if bin contains fine granular material (see also page 42-43): **4P-700 or 4P-1000** if bin contains lumpy or stringy material (page 44-45): **US-900** if bin contains light, powdery or real sticky material (cement, concrete, molasses, etc., page 46-47); **SCR-1000** (page 38-39) when different materials are used in the bin and different frequencies or forces are needed. For additional considerations, also see "Electric Vibrator Model Selector" table on this page.

When choosing a pneumatic vibrator, see table on this page "Pneumatic Vibrator Model Selector". The turbine BVS and VS-380 (page 8-11) is quiet, meeting or exceeding OSHA, has low maintenance cost, and needs no lubrication, (all other pneumatic vibrators need lubrication).

Difference between BVS and VS: In BVS, the air exhaust is threaded allowing connection of a hose or pipe; permitting the exhaust air to be exhausted outside work area; or used with different mufflers. To exhaust the air into the atmosphere (where the vibrator is mounted) most VS units have a built-in muffler or threaded exhaust for a muffler.

Ball vibrators BV-380 or V-380 (page 22-23): Noise level increases rapidly as ball and race wears. Use in high temperature applications. Difference between BV and V is the same as with BVS and VS.

Piston models 50-2L and 50-2LS are used for low cost and low air consumption (must be lubricated). Pistons are preferable on feeders and packing tables. Comes in silent (non-impacting) and non-silent (impacting) models, (page 24-25).

Big Buster, PC-3500 is primarily used for railroad car shakers where a high intermittent force is needed (pages 34-35, 58-59).

A WIDE SELECTION OF ELECTRIC, PNEUMATIC,

FORCE 20 40 60 80 100 150 200 300 400 500

ELECTRIC

SMALL IMPACT LINE (pages 40-41)

SPR, SPRT, SPRWT			
20	40	60	80



SPR



SPRT



SPWT



SCR-100

SCR ADJUSTABLE SPEED & FORCE (pages 38-39)

SCR-50		SCR-100		SCR-200		SCR-300	SCR-400	SCR-500	
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2P, 4P HEAVY DUTY LINE (pages 42-45)

2P-75		2P-100		2P-150		2P-200		4P-600/700	
				4P-350					

SFC & FC (page 51)

SFC-100		SFC-300, FC-100		FC-300	
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US-HIGH FREQUENCY LINE, DC-12 VOLT DC BATTERY OPERATED (pages 46-47)

US-100		US-450		DC-500	
DC-100		DC-450, DC-200, DC-300			



PNEUMATIC

SILENT TURBINE VIBRATORS (pages 8-21)

BBS, FBS, VS-100, BVS-60	BBS, FBS, VS, BVS-130	VS, BVS-160	VS, BVS-190	VS, BVS-250
--------------------------	-----------------------	-------------	-------------	-------------

BBS-160



BBS-160

BBS-190

BALL VIBRATORS (pages 22-23)

BB-100, V-100, BV-60	BB, V, BV-130	BB-160	BB, BV, V-190	BV, V-250	BV-320
----------------------	---------------	--------	---------------	-----------	--------

V-130



V-190



BV-320

PISTON VIBRATORS (pages 24-29)

10-5/8	10-3/4	10-1	50	10-1-1/4	50, 55-1-1/4	50, 55-1-1/2	50-1-1/2L, LS
		55-1, 1-1/4S		50, 55-1-1/2S			



HIGH FREQUENCY (pages 30-33)

BIG BUSTER PNEUMATIC (pages 34-35)

HYDRAULIC

(pages 34-35)


















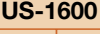











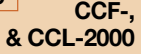





















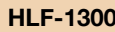



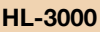


B-190

B-250

Follow selected vibrator force line vertically to select the correct vibrator to meet your force needs. Material, Dimensions & Data subject to change without notice. Some Values approximated.

AND HYDRAULIC VIBRATORS FROM VIBCO

560 600 700 800 900 1000 2000 3000 4000 5000

 SCR-1000									
 2P-100									
 2P-450									
 2P-800									
 2P-1700									
 2P-2500									
 2P-4500									
 2P-5500									
 4P-1000									
 4P-1400									
 4P-3000									
 4P-5000									
 US-450									
 US-1600									
 DC-3500									
 US-700									
 US-900									
 US-1600									
 DC-700									
 DC-900									
 DC-1600									
 DC-3500									
 VS-320									
 BVS-570									
 CCF-5000									
 VS, BVS-320									
 VS, BVS-380									
 VS, BVS-510									
 BVS-570									
 CCF-, & CCL-2000									
 CCF, CCL, CCW-5000									
 BV, V-320									
 BV, V-380									
 55-2									
 50-3									
 50-2L									
 50,55-3S									
 50-3L									
 50, 55-2S									
 50, 55-3									
 50-3LS									
 PC-3500									
 SVR, SVRLS-4000									
 SVR, SVRLS-5500									
 SVR,SVRLS-6500									
 PF-800									
 PF-1200									
 PF-1500									
 PF, PC-3500									
 B-320									
 HLF-700									
 HLF-1300									
 HF-800									
 HF-1500									
 HF-1200									
 HL-3000									
 HC, HF-3500									
 HLF-700									

FOR VIBRATOR FORCE OR IMPACT IN LBS., SEE PAGES 78-79

CONSTRUCTION & INDUSTRIAL APPLICATIONS



Contact VIBCO for your brochure copy & for more information!

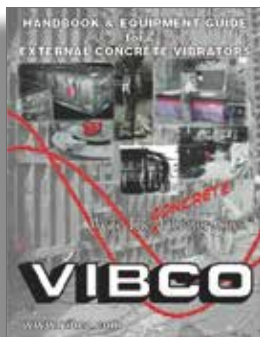
VIBCO SUPPLIES MANY SPECIALTY VIBRATORS

Use this handy QR Code to download any of our Product Catalogs

Go to www.vibcovibrators.com to order printed catalogs or to download them

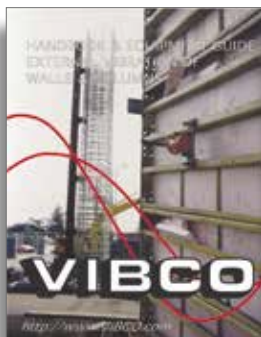
HANDBOOK AND EQUIPMENT GUIDE: External Concrete Vibration

- ▶ How-to-Booklet
- ▶ Application Photos
- ▶ Selection & Locating Guide
- ▶ Catalog #8401



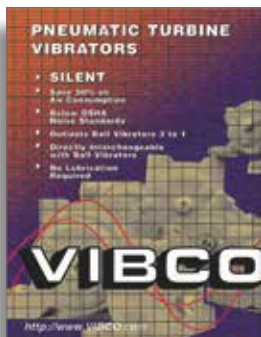
HANDBOOK AND EQUIPMENT GUIDE: Vibration of walls and Columns

- ▶ How-to-Booklet
- ▶ Engineering Data
- ▶ Application Photos
- ▶ Catalog #0103



PNEUMATIC TURBINE VIBRATORS

- ▶ Silent Operations
- ▶ No Lubrication
- ▶ Longer Service Life
- ▶ Catalog #9127



INTERNAL CONCRETE VIBRATORS

- ▶ Electric 3/4, 1, 1-3/8" to 2-1/2" Head Size
- ▶ Interchangeable Head and Shaft
- ▶ Pneumatic 1-3/8" to 6" Head Size
- ▶ Catalog #9606

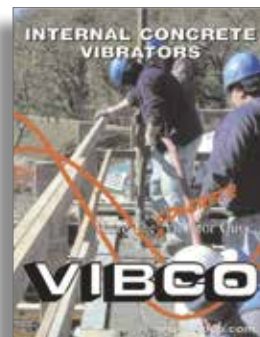
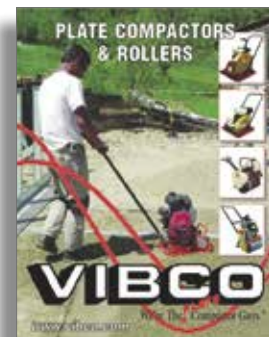


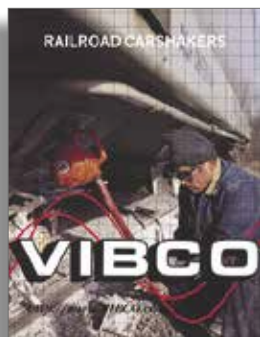
PLATE COMPACTORS & ROLLERS

- ▶ 12" to 20" Plates
- ▶ Reversible and Single Direction Plates
- ▶ Rollers in sizes of 12", 24" and 36"
- ▶ Catalog #9808



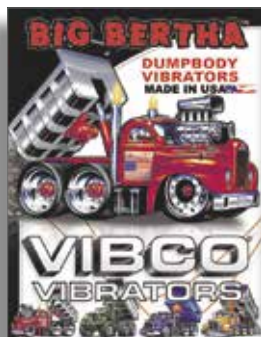
RAILROAD CAR SHAKERS

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



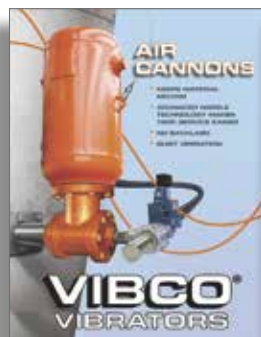
BIG BERTHA: Dump Body Vibrator

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



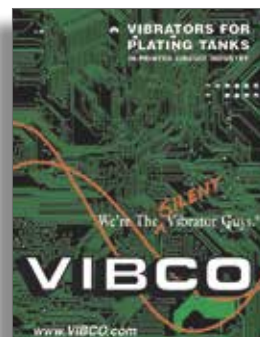
AIR CANNONS

- ▶ Patented Dual Piston Design
- ▶ Uses Normal Plant Air
- ▶ Install in any position
- ▶ Catalog #CAT-P-AC-09919



VIBRATORS FOR PLATING TANKS

- ▶ Designed for Printed Circuit Industry
- ▶ Electric & Pneumatic Models
- ▶ Application Photos
- ▶ Catalog #9709



VIBRATING TABLES

- ▶ Densify & Compact Materials in Bags, Carton Etc.
- ▶ Fatigue & Quality Control Testing
- ▶ Custom Tables
- ▶ Catalog #7902



CUSTOM APPLICATIONS & OEM

#VIBCO SOLUTIONS



HAVE IT YOUR WAY

With a legacy spanning decades as “The Expert Vibrator Guys”™, VIBCO continues to raise the bar in the industry. Our extensive catalog boasts over 1800 standard products, each carefully crafted to meet the highest quality standards. From small-scale applications to large industrial projects, we have a vibrator solution for every need.

ENVIRONMENTALLY CONSCIOUS MANUFACTURING:

At VIBCO, we take our environmental responsibilities seriously. That’s why we employ environmentally friendly paints and manufacturing techniques, reducing our carbon footprint while ensuring our products are safe for both users and the planet. Our commitment to sustainability extends to our machine shop, where we have implemented a first-rate recycling program, minimizing waste and promoting eco-conscious practices.

CUSTOM VIBRATORS FOR SPECIALIZED ENVIRONMENTS:

While our catalog showcases an array of standard products, we take pride in our ability to customize vibrators to your unique specifications. No matter how specialized your environment is, VIBCO can tailor its vibrators to deliver optimal performance. Whether you’re operating in the food, chemical, pharmaceutical, or other industries requiring sanitary conditions, our unique VIBCO Vibrators are designed to excel.

SPECIAL COATINGS AND HOUSINGS:

To further cater to your specific needs, we offer a range of special coatings and housing options. Our Bakers enamel, Poly, and Stainless Steel coatings provide enhanced durability and protection, ensuring our vibrators stand the test of time even in challenging environments.

VERSATILE VIBRATOR OPTIONS:

Our commitment to meeting diverse requirements is reflected in our vibrator options. From adjustable speed and force to heavy duty, high frequency, and explosion-proof models, our electric vibrators offer unrivaled versatility. Enclosed and weather-resistant, they operate flawlessly in any condition, ensuring the smooth flow of bulk materials through bins, hoppers, chutes, and more.

ROBUST PERFORMANCE:

When it comes to longevity and durability, VIBCO electric vibrators outperform their air-operated counterparts by two to three times, even in the harshest conditions, including corrosive environments. This translates to lower maintenance costs and increased productivity for your operations.

COMPREHENSIVE PRODUCT RANGE:

Beyond our standard electric vibrators, our catalog encompasses hydraulic and pneumatic vibrators, catering to various industrial needs. VIBCO hydraulic vibrators are ideal for heavy duty applications in wet, muddy, or dusty conditions, boasting trouble-free operation and reducing maintenance and labor expenses. On the other hand, our virtually silent VIBCO pneumatic turbine vibrators revolutionize workplace safety, virtually eliminating the noise typically associated with vibrators.

SPECIALIZED EQUIPMENT SOLUTIONS:

In addition to our renowned vibrators, we offer a range of specialized equipment solutions, including Plate Compactors, Rollers, and Vibrating Tables. From landscape maintenance to consolidating concrete, our high-quality equipment ensures optimal performance, all with the shortest lead times in the industry.

ENHANCING MATERIAL FLOW:

Our VIBCO Air Cannons provide an innovative solution for fluidizing material in bins and silos. With compressed air release on command, they effectively break up material blockages, enhancing productivity and efficiency in material handling processes.

EXCEPTIONAL CUSTOMER SUPPORT:

At VIBCO, we prioritize your satisfaction. Our friendly and knowledgeable customer service agents are available to assist you from 7:30 am to 8:00 pm EST, ensuring you receive prompt and helpful assistance. Our 24/7 technical support guarantees you have the support you need, exactly when you need it.

FAST AND RELIABLE DELIVERY:

We understand the importance of timely delivery for your projects. That’s why we ensure efficient order processing and shipping. All of VIBCO’s standard products are available to ship the same day or very next day upon receiving your order. Count on us to deliver your vibrators and equipment promptly, so you can keep your operations running smoothly.

RELY ON VIBCO’S EXPERTISE:

With decades of experience and a commitment to innovation and sustainability, VIBCO is your go-to partner for all things vibration and specialized equipment. Contact us today to speak with one of our application engineers and discover the perfect solution tailored to your unique requirements. Experience the VIBCO difference where performance, quality, and customer satisfaction converge!



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- Same Day - Next Day
- Quality
- Throughput
- Innovation
- 100% Employee Engagement

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- ▶ **AIR CANNONS**
- ▶ **RAILROAD CAR SHAKERS**
- ▶ **VIBRATING TABLES**
- ▶ **COMPACTORS & ROLLERS**
- ▶ **ENGINEERED MOUNTING SYSTEMS**



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VIBRATORS

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