

VIBCO PNEUMATIC & HYDRAULIC FORCES TO 3500 LBS.



- Air & Hydraulic
- Forces to 3500 lbs.
- Continuous Duty

- Speeds from 5600 to 9000 VPM
- Adjustable Speed
- Foot & Clamp Mount

HYDRAULIC & PNEUMATIC

PF-3500 & BIG BUSTER PC-3500 (Pneumatic), **HF-3500 & HC-3500** (Hydraulic)

A patented vibration isolating coupling is mounted between the eccentric shaft and the motor drive shaft eliminating any vibration transfer through the shaft. Another vibration isolating coupling is connected between the vibrator housing and the motor housing eliminating all vibration transfer.

Advantages - With this unique patented design, premature failure of the drive unit is eliminated, and the full life can be expected, which will drastically add to the unit life and eliminate costly shutdowns and maintenance costs. The unit can now truly be used continuously which is the BIG advantage over competitive units.

General Features - Big Buster vibrators provide high force at low frequency. They are designed for continuous duty. All models are available in pneumatic or hydraulic drive. Big Buster units are designed with sealed bearings. Airline lubrication is required for the air motor vanes.

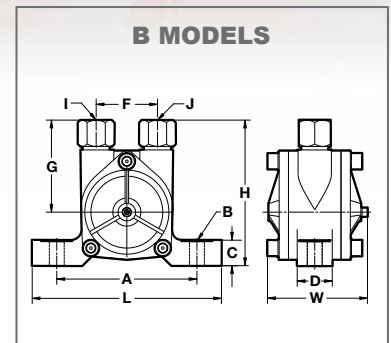
Where to Use? - These units are ideal for the toughest applications from unloading railroad cars to moving materials in bins and hoppers. Precise speed control allows "tuning" of the vibrator for best results in any application. Big Busters are available in clamp on base for portability and bolt-on base for permanent mounting.

HYDRAULIC - VIBCO's hydraulic vibrators operate in any position and are not affected by dirty, muddy or wet locations. They can operate on pressures up to 3000 PSI making them ideal to use with construction equipment for a variety of applications.

MODEL HLF & HL (Hydraulic) The small version of the Big Buster HF-Units are equipped with an internal coupling to maximize the life of the hydraulic motor. These small and powerful high speed 9000 RPM vibrators offer an inexpensive

solution to many material handling problems. HL 3000 same design as the HF - fits LC-1 Lug Bracket. Creates 3000 lbs. force at 7000 RPM - ideal for concrete applications.

MODEL B - PATENTED (Hydraulic) In VIBCO's patented design, hydraulic fluid under pressure drives a specially designed & patented turbine wheel producing high frequency vibration with noise levels as low as 60-62 dB at maximum speed. A real low cost unit ideal for O.E.M equipment.



Technical Data

Pneumatic Models	Weight		60 PSI (4 Bar)			
			Vibration per min.	Cubic ft. per min.	Centrifugal Force	
	lbs.	kg.	VPM	CFM	lbs.	Newtons
PF-800	37	17.0	4,000	11	800	3,560
PF-1200	38	17.4	3,500	21	1,200	5,340
PF-1500	60	27.0	3,500	31	1,500	6,670
PF-PC-3500	71	33.0	3,500	39	3,500	15,570
PLF-3500	40	18.1	5,400	45	5,600	17,000

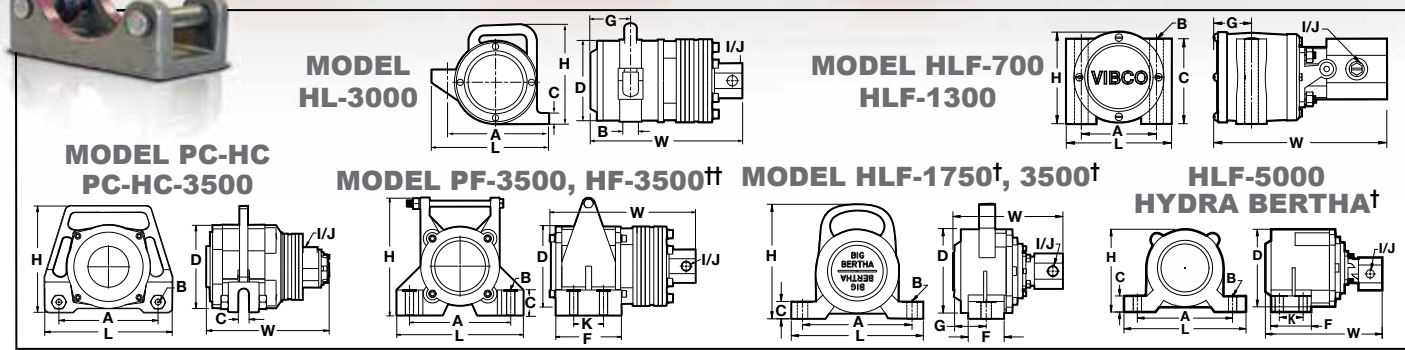
NOTE: Data obtained on laboratory test block • Data subject to design changes • Frequency & force will vary with air quality, unit lubrication, & mount rigidity

Hydraulic Models	Weight		600 PSI (41.4 Bar)			800 PSI (55.2 Bar)			1000 PSI (69 Bar)		
			Vibration /min.	Gallon /min.	Centrifugal Force	Vibration /min.	Gallon /min.	Centrifugal Force	Vibration /min.	Gallon /min.	Centrifugal Force
	lbs.	kg.	max VPM	GPM	lbs. Newtons	max VPM	GPM	lbs. Newtons	max VPM	GPM	lbs. Newtons
B-190	1.0	0.45	4,600	4.5	190 890	6,100	4.8	330 80	7,400	6.5	286 1,272
B-250	2.0	0.91	4,200	4.5	280 1,245	5,000	4.5	400 1,765	5,800	6.5	535 2,375
B-320	3.5	1.60	3,700	5.0	300 1,340	4,500	6.0	445 1,980	5,300	7.0	615 2,745

Hydraulic Models	Weight		Avg. Pressure	Vibration/min.	Gallon/min.	Centrifugal Force		Sound*
	lbs.	kg.	PSI	max VPM	GPM	lbs.	Newtons	dB
HF-800	37	17.0	600	5,000	3.2	1,300	5,785	72
HF-1200	38	17.4	800	4,500	2.9	1,900	8,450	74
HF-1500	39	17.7	900	4,000	2.6	2,000	8,900	76
HF-HC-3500	51	23.0	1,200	3,500	2.4	3,500	15,570	80
HL-3000	39	17.7	1,000	5,000	3.2	3,400	15,125	76
HLF-700	14	6.5	900	9,000	2.8	700	3,115	72
HLF-1300	20	9.0	1,000	9,000	2.8	1,300	5,785	72
HLF-1750	30	14.0	1,000	5,000	2.6	2,300	10,230	72
HLF-3500	35	16.0	1,200	4,000	2.5	3,500	15,570	72
HLF-5000	41	18.6	1,500	4,000	2.5	4,500	20,020	72

* Decibel from A-scale at 1 meter & avg. PSI (or max. listed value) NOTE: • Data obtained on laboratory test block • Data subject to design changes • Frequency & force will decrease on less rigid mount • Max pressure 3,000 PSI

MODEL B, HL, PF, PLF, PC, HLF, HF, HC



Dimensions

I* (inlet) & J* (exhaust)

Model	L		W		H		A		B*		C		D		F		G		I* & J*		K	
	in.	mm	in.	mm	in.	mm	in.	mm	in.	mm	in.	mm	in.	mm	in.	mm	in.	mm	NPT	in.	mm	
PF-800, 1200, 1500	10-3/8	264	11-1/4	286	8-3/4	222	8-1/2	216	3/4	19	1-3/8	35	6-1/2	165	2-13/16	71	8-1/2	216	1/2	-	-	
PF-3500	10-3/4	273	12-5/8	321	9-1/4	235	8-1/2	216	5/8	16	1-3/8	35	6-5/8	168	4-1/8	105	-	-	1/2	2-1/2	64	
PC-3500	12-1/2	318	12-1/4	311	10-3/4	273	10	254	1-1/4	32	1-3/16	30	6-1/2	165	-	-	-	-	1/2	-	-	
PLF-3500	10-3/8	264	9-1/2	241	8-3/4	223	8-1/2	216	3/4	19	1-3/8	35	6-1/2	165	2-13/16	71	5-3/8	137	-	-	-	

* Max. mounting bolt diameter † See page 45 for more information on Big Bertha units.
 †† PF, HF-800, -1200, & -1500 use compression rings not shown in dimensional drawings. NOTE: Material, dimensions and data subject to change without notice • Dimensions ±1/16"

Model	L		W		H		A		B*		C		D		F		G		I* & J*		K	
	in.	mm	in.	mm	in.	mm	in.	mm	in.	mm	in.	mm	in.	mm	in.	mm	in.	mm	NPT	in.	mm	
B-190	5-1/4	133	3-1/8	79	4-5/8	117	4	102	3/8	104	3/4	19	2-1/2	64	1-13/16	46	3	76	3/8	-	-	
B-250	6-3/4	171	3-5/8	92	5-3/8	137	5	127	1/2	13	1	25	3	76	2-1/4	57	3-3/8	86	1/2	-	-	
B-320	6-7/8	175	3-5/8	92	5-7/8	149	5	127	1/2	13	1-1/8	29	3-1/2	89	2-5/8	67	3-5/8	92	1/2	-	-	

* Max. mounting bolt diameter † See page 45 for more information on Big Bertha units. NOTE: Material, dimensions and data subject to change without notice • Dimensions ±1/16"

Model	L		W		H		A		B*		C		D		F		G		I* & J*		K	
	in.	mm	in.	mm	in.	mm	in.	mm	in.	mm	in.	mm	in.	mm	in.	mm	in.	mm	SAE	in.	mm	
HF-800, 1200, 1500	10-3/8	264	11-1/4	286	8-3/4	222	8-1/2	216	3/4	19	1-3/8	35	6-1/2	165	2-13/16	71	8-1/2	216	3/4-16	-	-	
HF-3500	10-3/4	273	12-5/8	321	9-1/4	235	8-1/2	216	5/8	16	1-3/8	35	6-5/8	168	4-1/8	105	-	-	3/4-16	2-1/2	64	
HC-3500	12-1/2	318	12-1/4	311	10-3/4	273	10	254	1-1/4	32	1-3/16	30	6-1/2	165	-	-	-	-	3/4-16	-	-	
HLF-700	5	127	7	178	4-1/2	114	3-1/2	89	1/2	13	3-7/8	98	-	-	-	-	2-1/2	64	9/16-18	-	-	
HLF-1300	5-3/4	146	7-5/8	194	5	127	4-1/2	114	1/2	13	5	127	-	-	-	-	2-1/2	64	9/16-18	-	-	
HL-3000	9-1/2	241	11-1/4	286	9-1/4	235	7-3/4	197	1	25	3/4	19	6-1/4	159	-	-	3-1/8	79	3/4-16	-	-	
HLF-1750 †	10-1/4	260	8-9/16	217	9	229	8-1/2	216	3/4	19	1-3/8	35	6-1/2	165	2-13/16	71	5-3/8	137	3/4-16	-	-	
HLF-3500 †	10-1/4	260	8-9/16	217	9	229	8-1/2	216	3/4	19	1-3/8	35	6-1/2	165	2-13/16	71	5-3/8	137	3/4-16	-	-	
HLF-5000 †	10-1/4	260	8-9/16	217	7	178	8	203	3/4	19	1-3/8	35	6-1/2	165	3-5/8	92	-	-	3/4-16	2	51	

* Max. mounting bolt diameter † See page 45 for more information on Big Bertha units.
 †† PF, HF-800, -1200, & -1500 use compression rings not shown in dimensional drawings. NOTE: Material, Dimensions & Data subject to change without notice • Dimensions ±1/16"