VIBRA SCREW ELECTROMAGNETIC VIBRATING FEEDERS

Simple and Efficient Equipment to Meter and Convey Dry Bulk Materials





ELECTROMAGNETIC VIBRATORY FEEDERS

Vibra Screw's line of vibrating feeders offers a simple and efficient means for metering and conveying your dry bulk materials. The feeders will handle nearly any material, regardless of size, bulk density, moisture content and temperature, in an extremely reliable and economical manner.

The key to the efficiency of Vibra Screw vibrating feeders is their advanced electromagnetic drive. This drive is the most compact on the market and requires an average of over 50% less energy to move similar amounts of material than drives available on competitive units.

Maintenance-free operation:

The drive does not use V-belts, brushes, gears bearings and other items which normally require periodic replacement. The simple design of the drive contains no interabrasive components, there no lubrication is necessary.

Sub-resonant tuning:

The feeder operates just below its natural frequency where vibrations are amplified and nearly self-sustaining, requiring little additional input power. This mode of operation also makes the feeder self-compensating for changes in head-load or material density.

Linear, 100% rate adjustability:

Rate change is made by varying only the drive amplitude, not the drive frequency. Other feeders must vary motor frequency (speed) to obtain a change in rate, thereby shifting the feeder away from the optimum operating frequency and causing nonlinear rate adjustment.

The electromagnetic drive on the Vibra Screw vibrating feeders is offered with a choice of three distinct operating frequencies:

- standard 60 cycles/sec, which provides the short strokes desirable for conveying most materials
- 30 cycles/sec, for conveying or screening fibrous or flaky materials which tend to absorb vibrations, and
- 120 cycles/sec, for screening applications involving fine materials.

The drive is also available with a variety of control options to suit your special needs now or in the future. These include a controller capable of providing amplitude feedback, for boosting feeder accuracy to \pm 2-3%, and a controller capable

Wide range of models

Two types of standard vibrating feeders, pan and tubular, available from Vibra Screw. The pan, or open trough model is the most common. The tubular feeder should be used when an enclosed system is required. Both feeders can be constructed in any length up to 100 feet - to convey materials nearly any distance necessary.

The pan feeder, when modified, is ideal for applications requiring separation, classification, dewatering, or spreading of materials. In addition, the pan feeder can be equipped with a variety of easy replaceable liners.





MAGNETIC VIBRATORS

Magnetic vibrators run as if they are lubricated even though they work completely grease-free. This is partly what makes them so reliable: no bearings, extremely robust design, built-in thermal switch to prevent overheating, and screw-on cable connections - great ideas that combine to deliver supreme durability and reliability.

The vibrators also include infinitely variable vibration amplitudes, instant power transmission or flexible adaptation of drives using weight plates. The collision protection (PAL) is an easy way to optimise performance and prevent outages-another standard feature that is only provided by other manufacturers as an optional extra. Compact and strong magnetic vibrators have real staying power. SUPPLEMENTARY WEIGHTS



VIBRATORY TRAY FEEDERS

VIBRATORY TUBE FEEDERS



Tubular Models	Capacity		Dimensions	Total	Weight						
	ТРН	CFH	D x L x H	H.P. (watts)	lbs						
GA750/160B	8.75	175	6 x 30 x 19	.13 (100)	66						
GA1000/160B	8	158	6 x 40 x 19	.13 (100)	75						
GA1250/160B	7	140	6 x 50 x 19	.13 (100)	86						
GA1000/200C	19	385	8 x 40 x 21	.2 (150)	141						
GA1250/200C	17.5	350	8 x 50 x 21	.2 (150)	147						
GA1500/200C	15.5	315	8 x 60 x 21	.2 (150)	152						
GA2000/200C	14	280	8 x 80 x 21	.2 (150)	163						
GA3000/200 2C	19	385	8 x 120 x 22	.4 (300)	289						
GA5000/200 3C	17.5	350	8 x 200 x 22	.6 (450)	437						
GA1250/260D	33	665	10 x 50 x 25	.4 (300)	238						
GA1500/260D	31.5	630	10 x 60 x 25	.4 (300)	246						
GA1750/260D	28	560	10 x 70 x 25	.4 (300)	256						
GA2000/260D	26	525	10 x 80 x 25	.4 (300)	265						
GA3000/260 2D	33	665	10 x 120 x 26	.8 (600)	474						
GA4000/260 2D	29.5	595	10 x 160 x 26	.8 (600)	511						
GA5000/260 3D	33	665	10 x 200x 26	1.2 (900)	716						
GA6000/260 3D	29.5	595	10 x 240x 26	1.2 (900)	751						
GA1500/320E	61	1225	12 x 60x 31	.7 (500)	412						
GA2000/320E	54	1085	12 x 80x 31	.7 (500)	438						
GA3000/320 2E	64.5	1295	12 x 120 x 32	1.4 (1000)	807						
GA4000/320 2E	57.5	1155	12 x 160 x 32	1.4 (1000)	864						
GA5000/320 3E	63	1260	12 x 200 x 32	2.1 (1500)	1225						
GA6000/320 4E	64.5	1295	12 x 240 x 32	2.8 (2000)	1587						
GA1500/400F	94.5	1890	16 x 60 x 38	1.25 (950)	401						
GA2000/400F	91	1820	16 x 80 x 38	1.25 (950)	650						
GA3000/400G	84	1680	16 x 120 x 42	2.4 (1800	1230						
GA4000/400 2G	94.5	1890	16 x 160 x 42	4.8 (3600)	2160						
GA5000/400 2G	89	1785	16 x 200 x 42	4.8 (3600)	2288						
GA6000/400 2G	82	1645	16 x 240 x 42	4.8 (3600)	2451						
*Also available in constant rate drive											
Canacity based on material being 100 lbs/ft3 at borizontal position											



Pan Models	Capacit	ty (TPH)	CI	FH	Dimensions	Total	Weight				
	NORM	MAX	NORM	MAX	D x L x H	H.P. (watts)	lbs				
OA 400/100A	-	1.4	-	28	4x16x10x2.5	.1 (75)	16.5				
OA 550/150A	-	1,75	-	35	6x22x10x2.5	.1 (75)	18				
OA 550/200A	-	3.8	-	77	8x22x11x4	.1 (75)	19				
OA750/300B	-	24.5	- 1	490	12x30x16x5	.13 (100)	66				
OA1000/300B	-	19.2	-	385	12x40x16x5	.13 (100)	77				
OA750/400C	60	66.5	1190	1330	16x30x19x6.5	.2 (150)	145				
OA1000/400C	54	66.5	1085	1330	16x40x19x6.5	.2 (150)	154				
OA1250/400C	49	61	980	1225	16x50x19x6.5	.2 (150)	163				
OA1000/500D	103	122	2065	2450	20x40x24x9	.4 (300)	238				
OA1250/500D	94.5	131	1890	2625	20x50x24x9	.4 (300)	251				
OA1500/500D	84	122	1680	2450	20x60x24x9	.4 (300)	262				
OA1250/650E	152	210	3045	4200	26x50x28x9	.7 (500)	419				
OA1500/650E	141	210	2835	4200	26x60x28x9	.7 (500)	458				
OA1750/650E	122	192	2450	3850	26x70x28x9	.7 (500)	493				
OA1250/900F	253	420	5075	8400	36x50x35x9	1.25 (950)	617				
OA1500/900F	236	437	4735	8750	36x60x35x9	1.25 (950)	661				
OA1750/900F	218	385	4375	7700	36x70x35x9	1.25 (950)	694				
OA2000/900F	210	341	4200	6825	36x80x35x9	1.25 (950)	727				
OA2500/900F	183	262	3675	5750	36x100x38x9	1.25 (950)	771				
OA1500/1200G	341	647	6852	12950	48x60x35x9	2.4 (1800)	771				
OA1750/1200G	332	752	6650	15050	48x70x35x9	2.4 (1800)	1146				
OA2000/1200G	315	682	6300	13650	48x80x35x9	2.4 (1800)	1181				
OA2200/1200 2G	402	857	8050	17150	48x90x37x9	4.8 (3300)	1225				
OA2500/1200G	271	507	5425	10150	48x100x38x9	2.4 (1800)	2337				
OA3000/1200G	253	420	5075	8400	48x120x39x9	2.4 (1800)	1329				
OA1750/1400 2G	481	875	9625	17500	56x70x37x10	4.8 (3300)	1424				
OA2000/1400 2G	490	962	9800	19250	56x80x37x10	4.8 (3300)	2282				
OA2250/1400H	420	1085	8400	21700	56x90x47x10	4.5 (3600)	3020				
OA2500/1400H	402	1155	8050	23100	56x100x47x10	4.5 (3600)	3087				
OA1750/1600 2G	560	1032	11200	20650	64x70x37x10	4.8 (3300)	2260				
OA2250/1600 2H	507	1330	10150	26600	64x90x59x10	9 (6600)	5975				
OA2500/1600 2H	507	1452	10150	29050	64x100x60x10	9 (6600)	6074				
OA3500/1600 2G	358	586	7175	11725	64x140x32x10	4.8 (3300)	2976				
OA2250/2000 2H	577	1522	11550	30450	80x90x59x10	9 (6600)	6339				
OA2500/2000 2H	560	1627	11200	32550	80x100x60x10	9 (6600)	64822				
OA3000/2000 2H	525	1785	10500	35700	80x120x64x10	9 (6600)	6789				
Use NORMAL rates only for sizing / reduce Norm rate by 30% when using abrasion resistant lining											
Maximum rates apply only when feeder is equipped with extended skirt boards.											
Capacity based on material being 100 lbs/ft3 at horizontal position at 8 degree decline											
1	Dimensions stated are nominal and are not to be used for construction purposes										





Keeping Dry Materials Moving

With a wealth of knowledge and experience in the use of controlled vibration to process dry bulk materials, Vibra Screw engineers have devised systems to handle most materials -- probably your material included.

As the leader in dry solids processing, our name is recognized and trusted worldwide in such diverse industries as:

FOODS

Flour, Soy, Meal, Sugar, Vitamin Supplements

MINING Aggregate, Kiln Feed, Crushed Ores, Coal, Lime

CHEMICAL Pigments, Additives, Starch, Carbon Black

STEEL Foundry Sand, Ores, Binders, Ferrous & Non-Ferrous Additives

FOREST PRODUCTS Chips, Sawdust, Waste-by-products

PLASTICS Regrind, Virgin, Colorant, Talc

ENVIRONMENTAL CONTROL

Filter Aids, Resource Recovery, Lime, Soda Ash, Activated Carbon, Fly Ash, Solid Wastes, Scrap

ORDNANCE

Ammonium Nitrate, Oxidizing Salts, Solid Base Propellants, Ammonium Perchlorate, HMX, RDX

AGRICULTURE

Cattle Feed, Soy Bean Meal, Nutricianal Supplements, Mill Feed, Spent Grain

PHARMACEUTICALS

Calcium Carbonate, Aspirin, Sodium Bicarbonate, Ascorbic Acid



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The Vibra Screw Product Line For additional information, ask for literature on the following:

- AccuFeed
- Batching Systems
- Bin Activator
- Bulk Bag Filler
- Bulk Bag Unloader
- DE Feeder
- Heavy Duty Screw Feeder
- Loss-In-Weight Feeder
- Live Bottom Bin
- Live Bin
- Live Bin Screw Feeder
- Pan & Tube feeder
- Portable Bin Unloader
- Screener
- Storage Pile Activator
- VersiFeeder
- Vibra-Blender
- Vibrating Screens
- Volumetric Belt Feeder
- Weigh Belt Feeder
- Water Treatment Systems

THE VIBRA SCREW GUARANTEE

If your Vibra Screw equipment doesn't perform in the service for which it was sold, we'll refund your money. Ask any other equipment manufacturer to put that in writing.

No time limits. No conditions.