

VIBRA SCREW INC.

VIBRA BLENDER



Vibra Screw® Inc.

Continuous blending systems are far more cost efficient than batch. Unfortunately, most can't match the accuracy and consistency of batch blending. Vibra Screw's patented Vibra Blender does.

Fluidizing Dry Materials

Vibra Blender utilizes a unique combination of a rotating paddle and material fluidization which, together, permit dry solids to blend with the ease of liquids. Gentle, controlled vibration of the mixing trough fluidizes material as it enters. There, a revolutionary mixing rotor with modified cut and fold flights provides agitation.

Fluidized material flows readily back through the cut openings in the flight insuring the required longitudinal mixing, while the flight folds induce through radial blending. The combination of vibrating material conditioning, controlled forward and backward flow, and radial mixing produces a thorough and uniform blend.

Materials flow through the Vibra Blender by gravity, thereby assuring maximum blending action for any given throughput rate. Gravity flow also makes the blender self adjusting to changes in the flow rate requirements, eliminating the need for recalibration or slaving to other equipment.

Vibra Blender's action is very gentle, resulting in an operation which is smooth, dust-free, and quiet with no material degradation.

Rugged Construction, Easy Maintenance

Vibra Blender users can expect years of trouble free operation. All external parts are fabricated of high-strength carbon or stainless steel. All drives are dust tight.

The patented gyrator is guaranteed to perform continuously for a minimum of 20,000 hours. For fast and thorough clean-up between jobs, the entire mix section can be disassembled in a few minutes. Completely sanitary construction is also available.

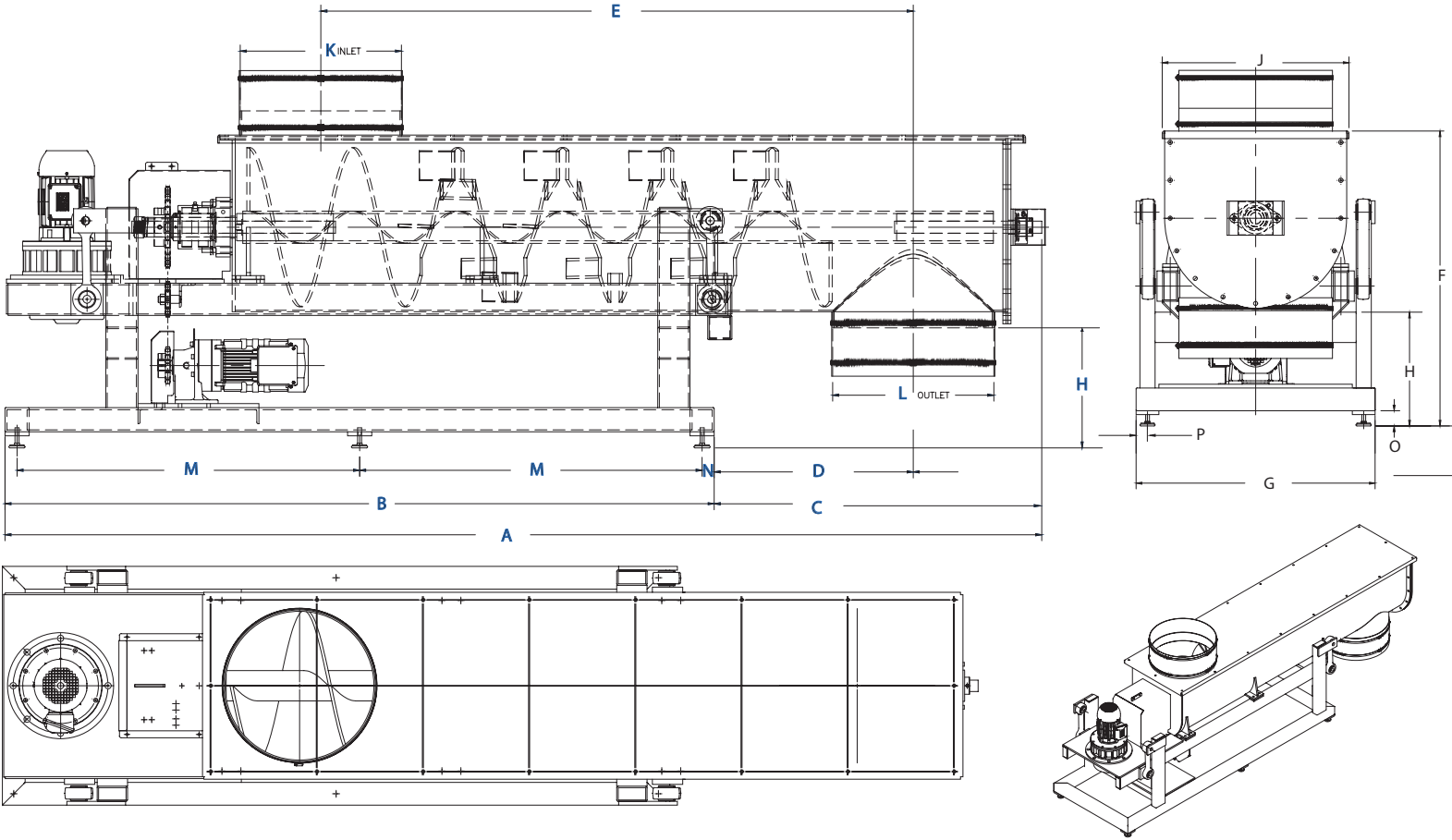
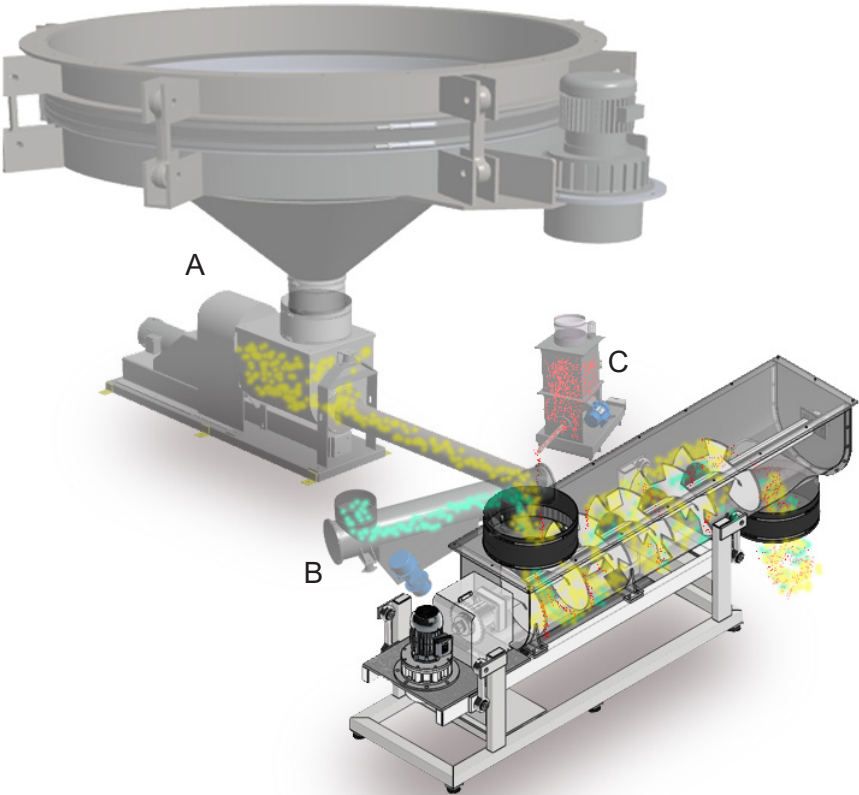
The Vibra Screw Blending System

As with all continuous blenders, the Vibra-Blender discharges material in the same proportion as supplied at the inlet. Therefore, accuracy of the feeding components which are guaranteed to provide the required accuracy. Some of these components are illustrated here.

A) The patented Bin Activator attaches to new or existing storage bins and discharges materials in a positive, continuous flow. In the illustration, the Bin Activator discharges to a vibratiing Heavy Duty Screw Feeder, which delivers material to the blender at rates up to 10,000 ft³/hr with accuracy of ± 1-2%.

B) Volumetric Tube or Pan Feeder are capable of feeding larger particle size materials at an accuracy of ± 1-2%. Ideal for long conveying lengths up to 30 ft and ideal for handling abrasive materials.

C) A gravimetric feeder with accuracy of ± 0.25-0.5% on a minute-to-minute basis is ideal for handling minor ingrediants such as colorants or reactive chemicals that require a very high degree of accuracy and blending



Size To Suit

Three standard sizes provide capabilities of 120, 325 and 1200 cubic feet per hour. Special sizes including large tonnage units are built to customers specification. Vibra Screw customers have the opportunity to select the blender which provides the most efficient match to their processing requirements

Dimensions inches (mm)																			
Model	A	B	C	D	E	F	G	H	J	K	L	M	N	O	P	Gyrator Motor	Drive Motor	*Capacity ft³/hr	
1	75 (1905)	55 (1397)	20 (508)	14 (356)	26 (660)	18 1/4 (461)	12 1/2 (318)	9 (229)	7 (178)	6 (152)	6 (152)	26 1/4 (667)	1 1/4 (32)	3/8 (10)	1 1/2 (38)	1/2 HP	1/4 HP	To 120	
2	80 1/4 (2038)	59 (1499)	21 1/4 (540)	13 (330)	39 (991)	27 (686)	20 (508)	13 3/4 (349)	11 (279)	10 (254)	10 (254)	28 (711)	1 1/2 (38)	1/2 (13)	1 1/2 (38)	1.0 HP	3/4 HP	To 325	
3	126 1/2 (3213)	88 (2235)	38 1/2 (978)	24 1/2 (622)	73 1/2 (1867)	38 1/2 (978)	30 1/2 (775)	14 3/4 (375)	21 (533)	20 (508)	20 (508)	42 (1067)	2 (51)	2 (51)	1 1/2 (38)	1 1/2 HP	1.0 HP	To 1200	
* Larger sizes available -- consult Vibra Screw Note Cover must be in place during operation																			

Contact Materials

- Carbon Steel
- 304 or 316 Stainless Steel
- Special Alloys

Coatings

- Standard external-enamel
- Optional external
- epoxy
- Corrosion resistant paints
- Customer specified paint
- Standard Internal uncoated or machinery enamel
- Optional internal
- Epoxy paint
- Teflon coating
- Customer specified

SPECIFICATION

Food Grade Applications

Standard:

- All internal seams continuously welded
- All welds gound smooth
- All internal surfaces polished, #4 finish
- Food grade gaskets and seals
- Material contact zone covers & frames equipped with quick disconnect fasteners for ease of cleaning

Optional Features/Equipment

- Collection hopper on cover
- CIP Design available

Motors

Standard

- AC Inverter Duty / VFD 460/3/60

Optional

Enclosures

Standard: TEFC

Optional:

- Explosion Proof
- Chemical Duty
- Customer Specified

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 Based Propellants, Ammonium Perchlorate, HMX, RDX

AGRICULTURE

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

PHARMACEUTICALS

Calcium Carbonate, Aspirin, Sodium Bicarbonate, Ascorbic Acid

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.



VIBRA SCREW INC.
755 Union Blvd , Totowa, NJ 07512
Ph: 973-256-7410 Fax: 973-256-2114
www.vibrascrew.com