



Features

- Abrasion resistant flexible urethane blades
- Air purge shaft seals
- Rugged construction
- V-belt drive
- Low profile design
- Self cleaning
- Low cost

Options

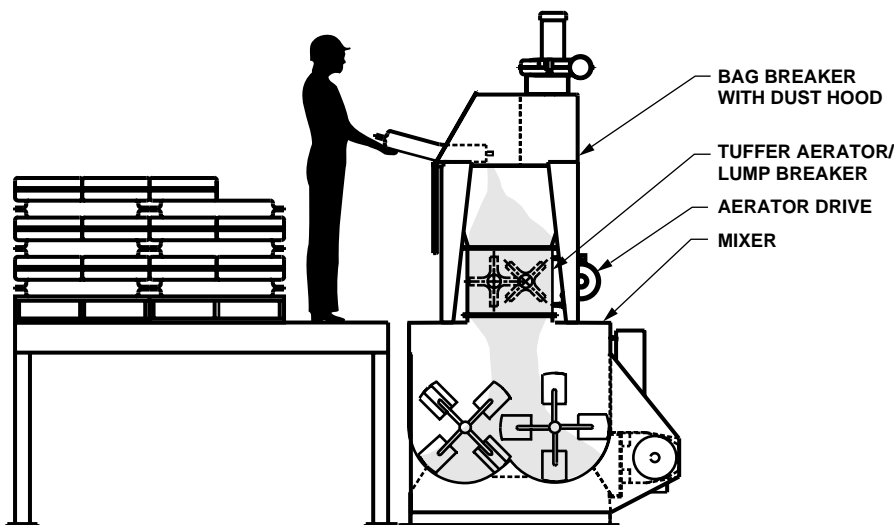
- Stainless steel construction
- Special finishes
- Stainless steel blades
- Variable speed drive
- Shear bar
- Special voltages and frequencies
- Outboard bearings
- Stuffing box shaft seal for high temperature material

Reduces lumps for improved material handling

The Tuffer® aerator/lump breaker effectively reduces moist, semi-moist, or dry solids down to grain size. The counter-rotation of the fast moving blades helps to reduce lumps with ease and

aerates the material. The result is a more consistent particle size and a fluffier bulk solid. Material will gravity feed and flow easier, improving overall handling efficiency.

Typical application

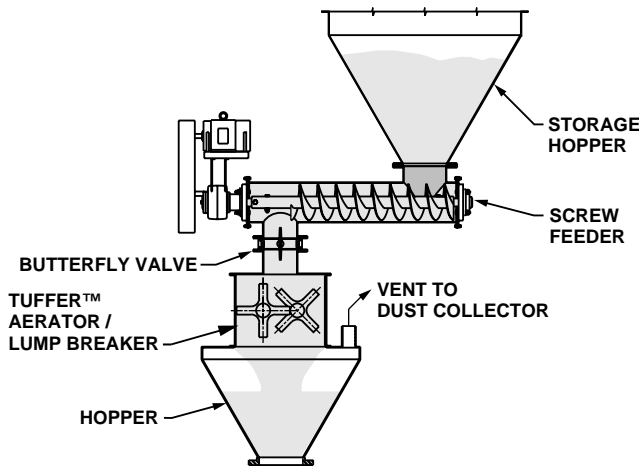


The Tuffer aerator/lump breaker will handle:

- | | |
|---------------------|------------------|
| ■ Alumina | ■ Iron oxide |
| ■ Ball clay | ■ Kaolin clay |
| ■ Barite | ■ Lime |
| ■ Bauxite | ■ Milk powder |
| ■ Bentonite | ■ Molding sand |
| ■ Borax | ■ PVC resin |
| ■ Calcium carbonate | ■ Quartz |
| ■ Cement | ■ Silica sand |
| ■ Feldspar | ■ Soda ash |
| ■ Fine coal | ■ Sodium sulfate |
| ■ Flour | ■ Sugar |
| ■ Fluorspar | ■ Talc |
| ■ Fly ash | ■ And more |
| ■ Gypsum | |

How the Tuffer aerator/lump breaker works

To control the inlet flow, material must be fed into the Tuffer aerator/lump breaker by a feeding device, such as a screw or vibratory feeder. When the material is fed into the Tuffer aerator/lump breaker, a double set of counter-rotating blades drive the bulk solids through to break up the lumps of material. The Tuffer aerator/lump breaker uses the centrifugal force generated by the closely spaced blades to reduce the bulk solids to a smoother, fluffier consistency.



Construction features:

The Tuffer aerator/lump breaker consists of two independently driven shafts powered by a v-belt drive system. Each shaft has a number of heavy duty blades mounted close together to control the particle size desired. This simple free-wheeling design eliminates high friction forces, lowering horsepower requirements and the need for complex parts and synchronization.

For even finer particle breakdown, a shear bar design is also available. The shear bar design consists of two rapidly rotating shafts with closely spaced cross bars that rotate through a fixed set of bars on either side.

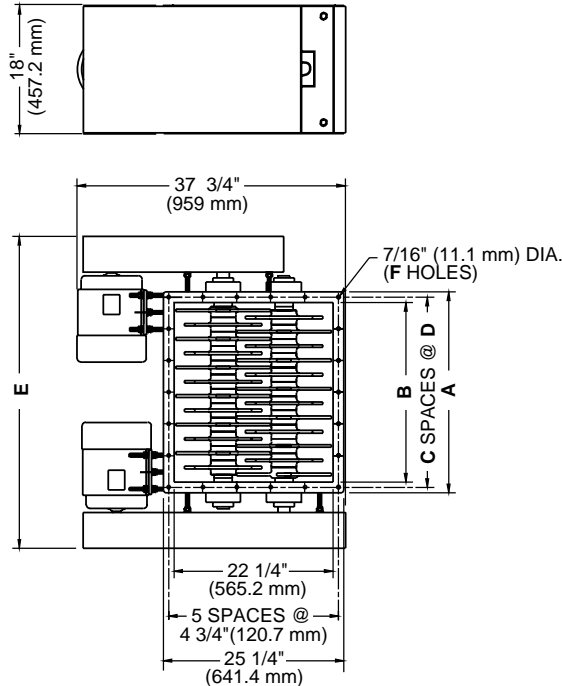
The Tuffer aerator/lump breaker is available in various sizes and capacities to suit most process requirements. The low profile design permits installation in new and existing systems.

Power requirements:

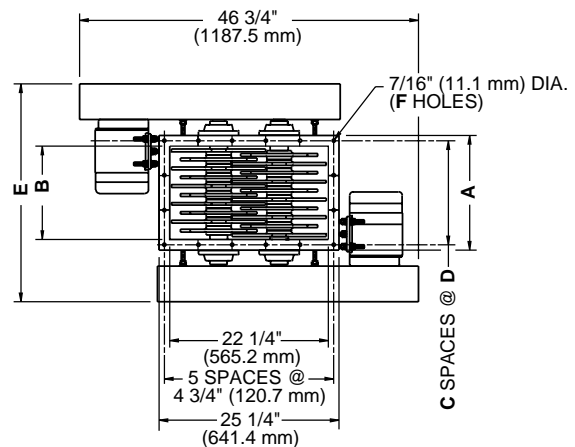
Standard Operating Voltage:
230/460 VAC 3 phase 60 Hz

Standard Operating Temperature:
150° Fahrenheit/65° Celsius

Dimensions and specifications



Model No.	A	B	C	D	E	F	Motor H.P.	Shipping Weight
2412	16-1/8" (409.6mm)	13-1/8" (333.4mm)	3	4-7/8" (123.8mm)	30-5/8" (778mm)	16	2	525 lbs. (238 kgs)
2424	28-1/8" (714.4mm)	25-1/8" (638.2mm)	6	4-7/16" (112.7mm)	43-3/4" (1111mm)	22	5	650 lbs. (295 kgs)
2436	40-1/8" (1019.2mm)	37-1/8" (943.0mm)	7	5-1/2" (139.7mm)	55-1/2" (1410mm)	24	7.5	800 lbs. (363 kgs)
2442	46-1/8" (1171.6mm)	43-1/8" (1095.4mm)	8	5-9/16" (141.3mm)	61-1/2" (1562mm)	26	10	885 lbs. (401 kgs)



Specifications subject to change without notice.

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