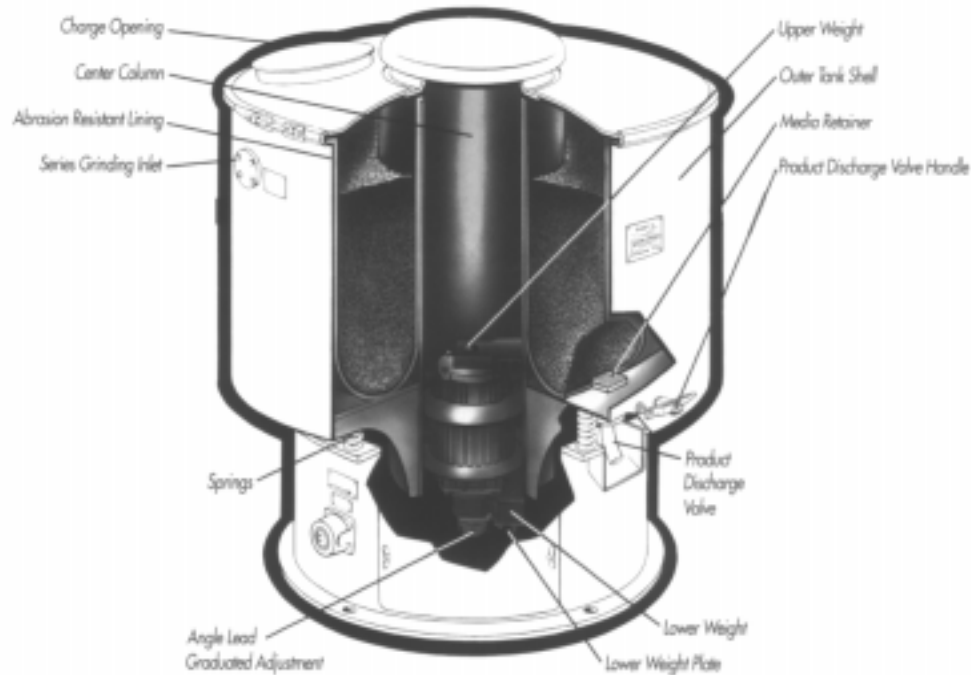




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VIBRO-ENERGY GRINDING MILLS



The vibro energy mill consists of a grinding chamber and vibrating mechanism, and will grind any material that can be broken by impact. These short stroke, high frequency mills are ideal for fine grinding material, with product sizes ranging down to 1 Micron.

The grinding chamber is in the form of a vertical cylinder, which is filled with small pieces of very hard grinding media, such as 1/2 inch high density aluminum cylinders. The material to be ground is introduced into the voids between the grinding media. The vibration mechanism is attached directly to the base of the grinding chamber and the whole assembly is suspended on high tensile steel springs. All of the energy from the vibrating mechanism is imparted directly to the grinding media without the necessity for intermediate gears, drives or clutches.

The vibrating mechanism consists of a specially designed electric motion generator, having a heavy shaft mounted in heavy duty bearings. At each end of the shaft are attached "out of balance" weights, consisting of a top weight (which is in the same horizontal plane as the top of the suspension springs) which is connected to the motion generator shaft in a fixed position and a lower weight plate which provides the gyrating tilt. The top eccentric weight causes a horizontal gyration of the grinding chamber. So, together, the top and bottom plates generate the unique 3 dimensional high frequency gyratory motion which is transferred directly to the grinding chamber and constitutes the grinding energy inside of the mill chamber.

The major benefit derived from the vibro energy mill is its ability to give a high degree of sophisticated grinding chamber movement, with precise controls, dust free operation and virtually no vibration transmitted to the floor.

VIBRO-ENERGY GRINDING MILL DATA SHEET



The M-18 Low Amplitude Grinding Mill, pictured above, has a maximum working capacity of 2.6 gallons. **For wet grinding.** Standard base with 12 spring assemblies. Product discharge valve assembly. Metal cover assembly. Polyurethane grinding chamber lining is standard. Stainless steel is available. Requires approximately 200 pounds of 1/2" alumina cylinders grinding media. 1/4 HP/230 V/3 Ph/60 Hz standard. 50 Hz available. Shipping weight is 220 pounds.

CATALOG NUMBER: 010E-171



The M60 Low Amplitude Grinding Mill, pictured above, has a maximum working capacity of 70 gallons. **For wet grinding.** Standard base with 34 spring assemblies and a remote drive weight bearing assembly. Polyurethane grinding chamber liner is standard. Stainless steel is available. Cover assembly with one charge port. Motion generator is 10 HP/230 V/3 Ph/60 Hz. 50 Hz motor is optionally available. Series grinding is possible with connector option. Requires 5,600 lbs. of 1/2" alumina cylinders. Shipping weight is 7,500 pounds.



The DM-1 High Amplitude Grinding Mill, pictured above, has a maximum capacity of 1.2 Ft.³ working volume of 1.3 gallons (wet) or 0.2 Ft.³ (dry). **For dry or wet grinding.** Standard base with 12 spring assemblies. Product discharge door including media retainer. Polycarbonate cover assembly. Polyurethane grinding chamber lining is standard. Requires approximately 80 pounds of 1/2" alumina cylinders grinding media. 1/3 HP/230 V/3 Ph/60 Hz standard. 50 Hz available. Shipping weight is 220 pounds.

CATALOG NUMBER : 010E-173



The DM-3 High Amplitude Grinding Mill, pictured above, has a maximum chamber capacity of 3.0 Ft.³ Working volume is 4 gallons (wet) or 0.6 Ft.³ (dry). **For dry or wet grinding.** Standard base with 12 spring assemblies. Perforated plate product discharge door. Metal cover assembly with one charge port. Polyurethane grinding chamber lining is standard. Requires approximately 300 pounds of 1/2" alumina cylinders grinding media. 1-1/4 HP/230 V/3 Ph/60 Hz standard. 50 Hz available. Shipping weight is 500 pounds.

CATALOG NUMBER: 010E-174