

Efficient Vibratory Grinding Mills

GK's VIBRA-DRUM® Grinding Mills deliver exceptional grinding performance and reliability. A sub-resonant two-mass drive and spring system alternately stores and releases grinding power resulting in lower power consumption in many applications.

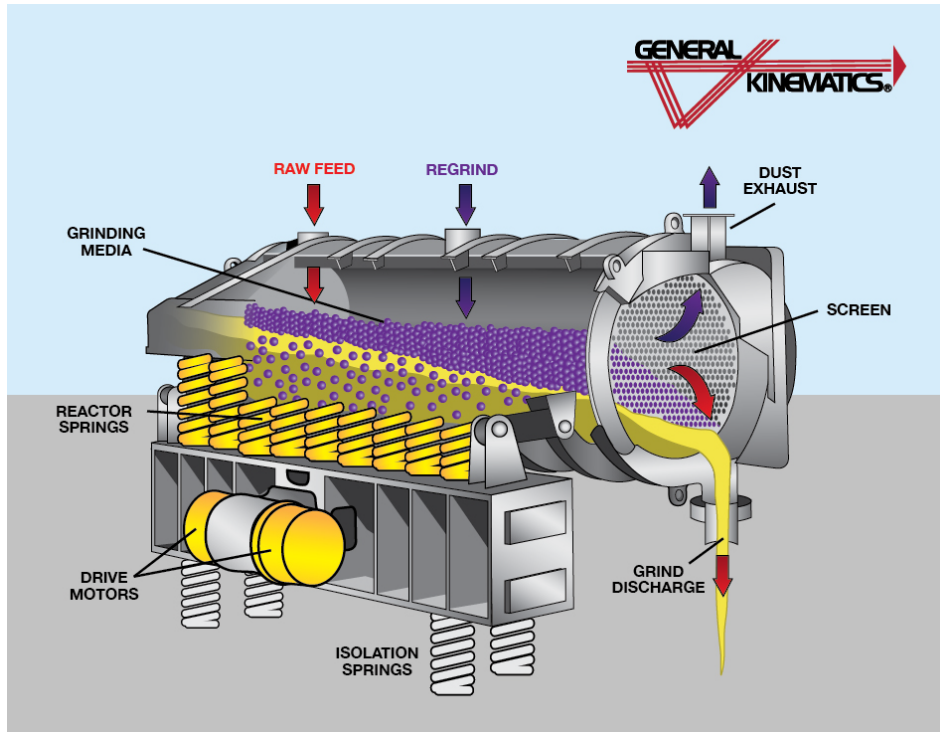
In addition, the VIBRA-DRUM® can be used for processes other than grinding.

Here are just a few of the materials successfully processed by General Kinematics' proven vibratory drum grinding mill.

Abrasives	Nickel/Ferro Chrome Alloys
Alumina	Various Ores - Copper, Iron, Gold
Aluminum Oxide	Chrome Carbide
Barite	Petroleum Coke
Barium Ferrite	Phosphate
Calcined Magnesite	Quartzite
Gerro Alloys	Shale
Ferro-Silicon	Silica Sand
Graphite & Synthetics	Silicon Carbide
Iron Oxides	Silicon Metal
Magnetite	Slags, various
Metallic Slag	Titanium
Moly	Tungsten Carbide

Features

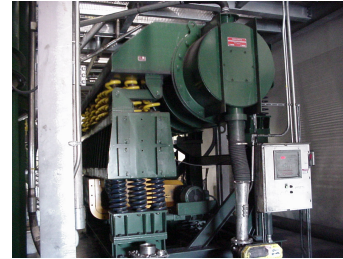
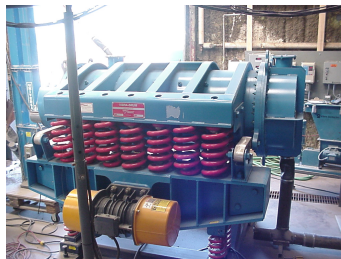
- More Uniform Particle Shape created by the VIBRA-DRUM® high frequency, low impact design.
- Unlike rotary mills, this unit generates a high degree of material attrition. The result: faster, more efficient grinding action with less process heat thanks to higher operating efficiency.
- Low Initial Cost with lower foundation requirements.
- Energy Savings reach up to 50% reductions in kW hours per ton of processed material. These impressive savings are derived from data collected from actual production units currently in operation.
- Reduced Maintenance Costs are the result of our unit's unique design. There are no expensive drive reducers or mill support bearings to maintain. Additionally, only 60% of the grinding chamber requires liners.
- Increased Flexibility:
 - Regrind location
 - Piping water or chemicals into chamber
 - Stroke control on the drum shell
- Dry Grinding Options:
 - Enhanced air sweeping
 - Collection systems



Specs

Function:	Fine Grinding / Comminution
Components:	Electric Motors, Isolation Springs, Reactor Springs, Steel Construction, Liners
Construction Material:	Abrasion Resistant Steel, Mild Steel, Rubber, Stainless Steel, Ceramic
Power Requirements:	Up to 120 hp
Diameter:	2-6 feet
Length:	1-18 feet
Weight:	Length Dependent
Capacity:	Up to 10 Tons per hour (Material Dependent)
Analysis:	Fatigue, FEA, Stress
Production Volume:	Built to Order
Benefits:	Efficient, Low Maintenance, Reliable, Rugged, Safe Operation
Secondary Services:	Customer Support, Field Service, Additional Features
Quality:	ISO Certified

Application Photos



General Kinematics engineers, manufactures and installs a wide range of vibratory, rotary and process equipment. GK equipment is custom engineered to your application. Our mission is to not only provide a solution that works, but also to supply superior after market parts and service to our customers around the world.

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