

## GK CAPABILITIES

### Comprehensive Customer Support

Vibra-Mill can be purchased as a "stand alone" unit, or we can supply a complete system including: vibratory sand and casting conveyors, sand coolers, feeders, compaction tables and shakeouts, to name just a few. Our comprehensive engineering services include system layouts and installation drawings to assure successful equipment integration for new or existing systems. Whats more, your equipment purchase is backed by extensive spare parts inventories and field service that is second to none.

### Expert Materials Testing

There's no substitute for comprehensive testing. General Kinematics can perform full scale production testing for Vibra-Mill and other sand or casting handling equipment. Your General Kinematics sales representative can arrange a no obligation test with your materials.

### Global Capabilities

General Kinematics has been serving domestic and international customers for more than four decades in the foundry and other industries including: mining, recycling and chemical processing. Today, the company has manufacturing facilities in the United States and the United Kingdom, plus licensees in Australia, Canada and Japan. To date, more than 35,000 units have been installed in virtually all of the world's industrialized countries.



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# GENERAL KINEMATICS

## VIBRA-MILL® SAND RECLAMATION UNITS

- Lump Reduction
- Low cost cooling to 300 F or less with ambient air
- Eliminates costly supplemental cooling equipment
- Protects downstream equipment from heat fatigue
- Superior fines pick up and sand classification
- Rapid payback via increased recovery of tramp material
- Improved recovery of chills and other molding components



Leadership in Vibrating Process Equipment  
Also manufactured in Australia • Canada • United Kingdom • Japan



# Fast, Efficient Reduction Of No-Bake Sand Lumps...

... For Improved Reclaim and Less Downstream Costs

Superior lump reduction of no bake sand or chemically bonded sand has become synonymous with General Kinematics Vibra-Mill®. Standard models with production rates to 20 tons/hr. are easily installed in new or existing reclamation systems.

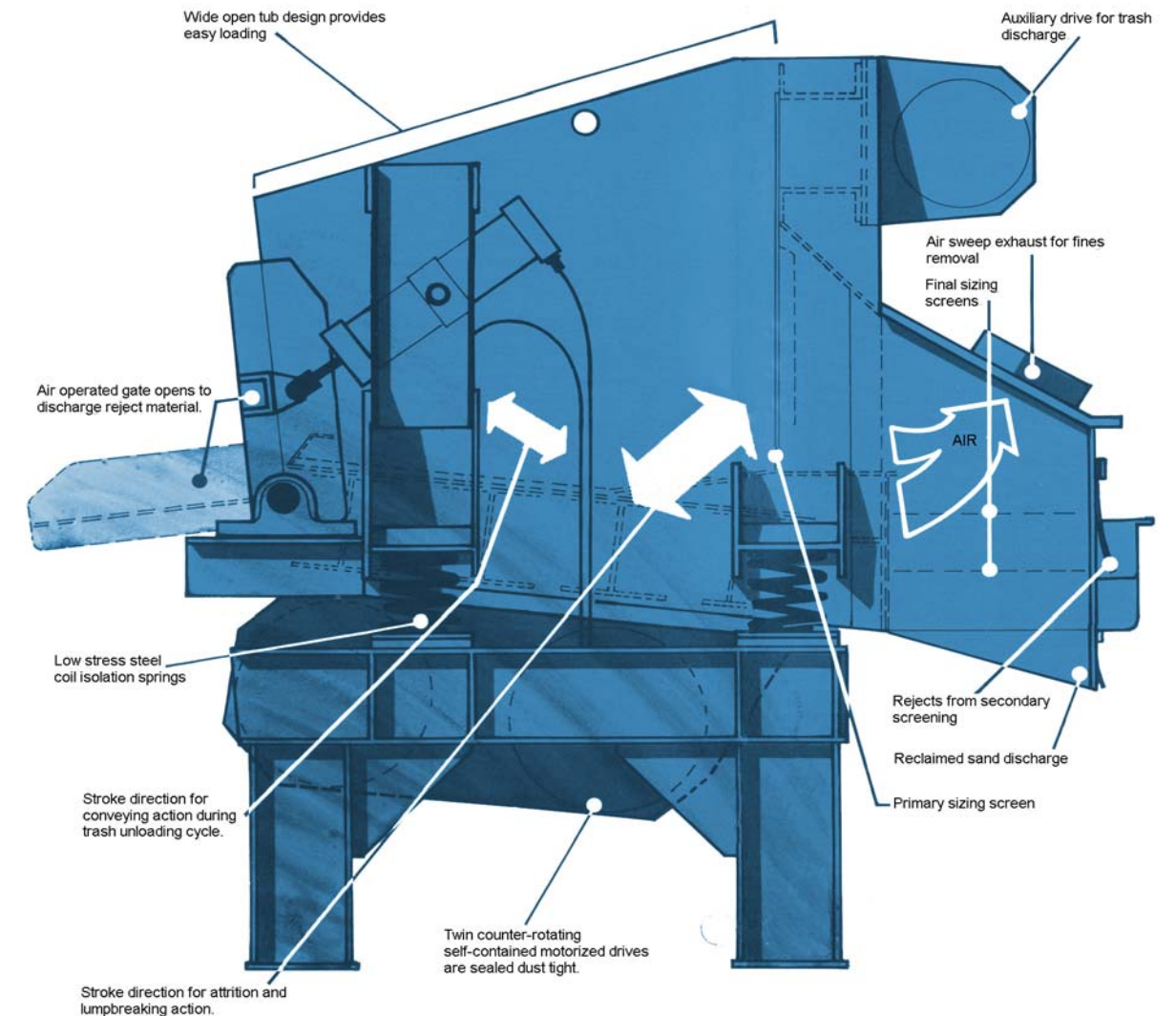
## Superior Design & Operating Features

Vibra-Mill is a highly efficient lump breaker and attrition mill that can eliminate the need for larger and more costly equipment. Proven in hundreds of foundry installations, it improves production rates and reduces costs for material handling and new sand. Proper Equally important, Vibra-Mill recovers valuable non-ferrous materials when used in aluminum, bronze, brass and special alloy applications. Check these important design and performance features:

- Superior lump reduction to 20 mesh maintains original grain size and distribution
- Final sizing screen separates ceramic and metallic particles, producing clean sand, ready for new mold production
- Air sweep exhaust captures fine organics for better reclaim quality and improved dust control
- Air operated gate provides easy recovery of tramp material, molding materials and valuable alloys
- Open tub design for easy loading reduced maintenance eliminates the need for manual cleanout
- Small equipment foot print conserves valuable floor space (largest model requires only 80 square ft.)
- Dual counter rotating drive system with dust-tight self contained motors for reduced maintenance and long service life



# How Vibra-Mill Works



Designed for superior performance with chemically bonded sand, Vibra-Mill uses vibratory motion to agitate and tumble lumps. During reduction, a sand bed develops to provide abrasive scrubbing to help reduce sand to original grain size. Turbulent air flow efficiently removes heat and moisture, and captures fine organics for efficient downstream removal. Cooled sand moves through multiple sizing screens, separating tramp material and producing preconditioned material with original grain size and distribution ready for re-use.