

# Solutions for Bulk Materials Processing

## Innovative Vibratory Technology

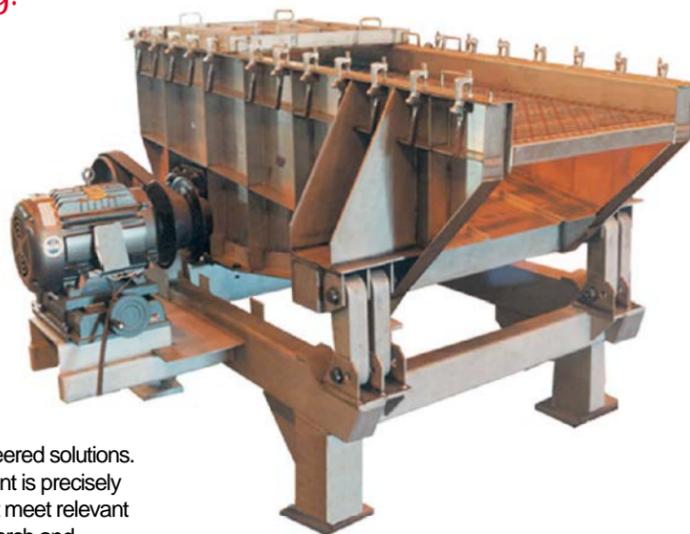
The Power to continuously & efficiently process bulk materials while conveying, feeding or elevating.

Whether your company produces chemicals, polymers, foods or pharmaceuticals, our goal is to provide innovating solutions that exceed customer expectations.

Known for expert application engineering, General Kinematics has the expertise and knowledge to respond to you needs for efficient, dependable processing packages. Our equipment capabilities let you perform a wide variety of processing functions while conveying or feeding bulk materials.

### Custom engineered

Our highly qualified staff of engineers and equipment design specialists is always available to help you with valuable process improvements and innovative application engineering. Although many applications are similar, each user's needs are unique. For this reason, we focus on custom-engineered solutions. Our engineering staff works closely with customers to assure that equipment is precisely tailored for all process needs and product requirements. Each design must meet relevant industry standards such as food grade construction, and may include research and development for special process requirements.

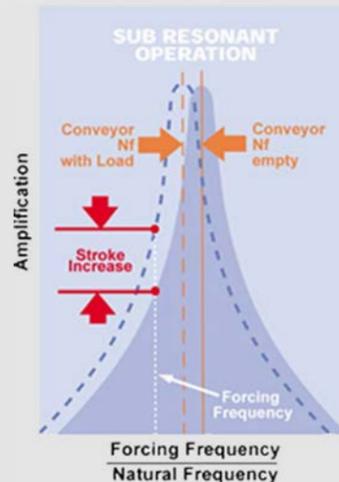


## The Principle of Natural Frequency

Natural frequency conveying moves materials smoothly and efficiently in a gentle series of "throws and catches." Spring systems are custom engineered and tuned to the weight of the conveying trough material.

This produces a system that resonates at the most desired natural frequency. Most important, when the conveyor operates near its natural frequency, more than 90% of the driving force is provided by the spring system. The eccentric drive provides only the additional energy lost because of friction.

Since each spring functions as an individual drive, all forces are uniformly distributed along the unit. No large destructive stresses appear at the trough connection, and power requirements are kept to a minimum. Equally important, there is a built in compensation for load surges – with smooth, even product flow.



### Spiral Conveyors

General Kinematics vibrating spiral conveyors for processing offer unmatched performance with added process features. Available in infinite lengths and heights, GK spiral conveyors are custom built for your specific application.



### VIBRA-DRUM® Grinding Mill

VIBRA-DRUM® grinding mills excel over conventional ball, stirred media, or vertical roller mills in both grinding and energy efficiency.



### TWO-WAY™ Horizontal Motion Feeders

TWO-WAY™ Bi-Directional Feeders from General Kinematics open up a wide range of process possibilities.



### S-FEEDER™ Standard-Series Vibrating Feeders

General Kinematics' S-Series transfer feeders are ideal for handling a wide range of light duty free-flowing products, including foods, ingredients and chemicals.



### Compaction Tables

The constant controlled agitation produced by General Kinematics compaction tables optimizes product densification to eliminate settling during transportation.



### VIBRA-PACK™

The VIBRA-PACK™ fills the full volume of your bulk containers to move bigger payloads, use fewer containers per order, and dramatically reduce total shipping costs.



### Vibrating Fluidized Bed Processors

General Kinematics Vibrating Fluidized Bed processors are unmatched in bulk processing performance. Each fluidbed is custom engineered to match your specific process need. An array of options make GK fluidbeds a versatile part of your process operations.



### OMNI-SCREENER™

General Kinematics vibratory OMNI-SCREENER™ produces superior control and classifying results in bulk material processing applications.



### HULA-HOPPER® Bin Activator / Feeder

The General Kinematics HULA-HOPPER® is an improved vibratory equipment concept based on operating principles proven in thousands of General Kinematics installations.



### Transfer Conveyors

Light duty vibrating conveyors are ideal for moving a wide range of free-flowing materials in food and chemical processing.



### AIR-DUO™ Pneumatic Two-Mass Feeders

The AIR-DUO™ drive from General Kinematics puts more energy into your feeding systems than standard pneumatically driven feeder designs.



### Toaster Conveyors

General Kinematics conveyors for under toasters, dryers, and coolers are constructed from heavy duty stainless steel to counter-act the effects of heat.

### Rotary Process Drums

Rotary process drums from General Kinematics can be designed for drying, mixing, granulating, coating, heating and more.

## Who we are

General Kinematics is the premier manufacturer of vibrating equipment for the processing of bulk materials. From vibratory feeders to entire process systems, GK can create the solution you require to process even the most difficult materials.

## What we do

No company in the field of vibratory equipment has consistently produced more innovative equipment ideas and problem solving application techniques than General Kinematics. For more than five decades we've maintained a solid reputation for design leadership – with exclusive vibratory drive systems, simplified spring reactor systems, and the most rugged and reliable construction available. Thousands of application tailored technical advancements have made General Kinematics' vibratory feeders and equipment excel in the most difficult environments.

## Why buy from GK

When facing the decision of purchasing capital equipment, a lot is on the line. Will the equipment work as promised? Will the equipment be reliable? Will it be a maintenance nightmare? What if it doesn't work? General Kinematics has proven through one successful installation to the next that our solutions reduce your risk of buying while helping to improve your process and increase profit to your bottom line.

## GK Highlights

- Extensive install base: 40,000+ installations in 35 countries.
- 24/7/365 customer service and support, with the ability to have a GK service representative on-site anywhere in the world in under 22 hours.
- Available same day shipping on all off the shelf, in-stock components.
- Industry leadership in innovation... 4 times the patents than the next leading vibratory equipment manufacturer.
- General Kinematics has the largest install base of vibratory foundry equipment in the world.
- All U.S. and many leading European automotive manufacturers choose General Kinematics vibratory equipment to solve their vibratory process solution needs.
- 100% Process Guarantee: GK has never walked away from a customer with a problem and is committed to getting your process up and running.
- General Kinematics is recognized by the editor of the leading recycling trade journal as providing the best recycling system solution to the C&D industry.
- 150 power plants in the US trust GK vibrating feeders to keep their coal flowing.
- General Kinematics is the only heavy-duty vibratory equipment company certified in ISO:9001.

General Kinematics partners with our customers to provide vibratory equipment that improves their throughput, increases their profitability, and reduces maintenance costs. The employees of GK genuinely want our customers to be successful in their businesses, and will do all they can to provide you with equipment and solutions to do so.

