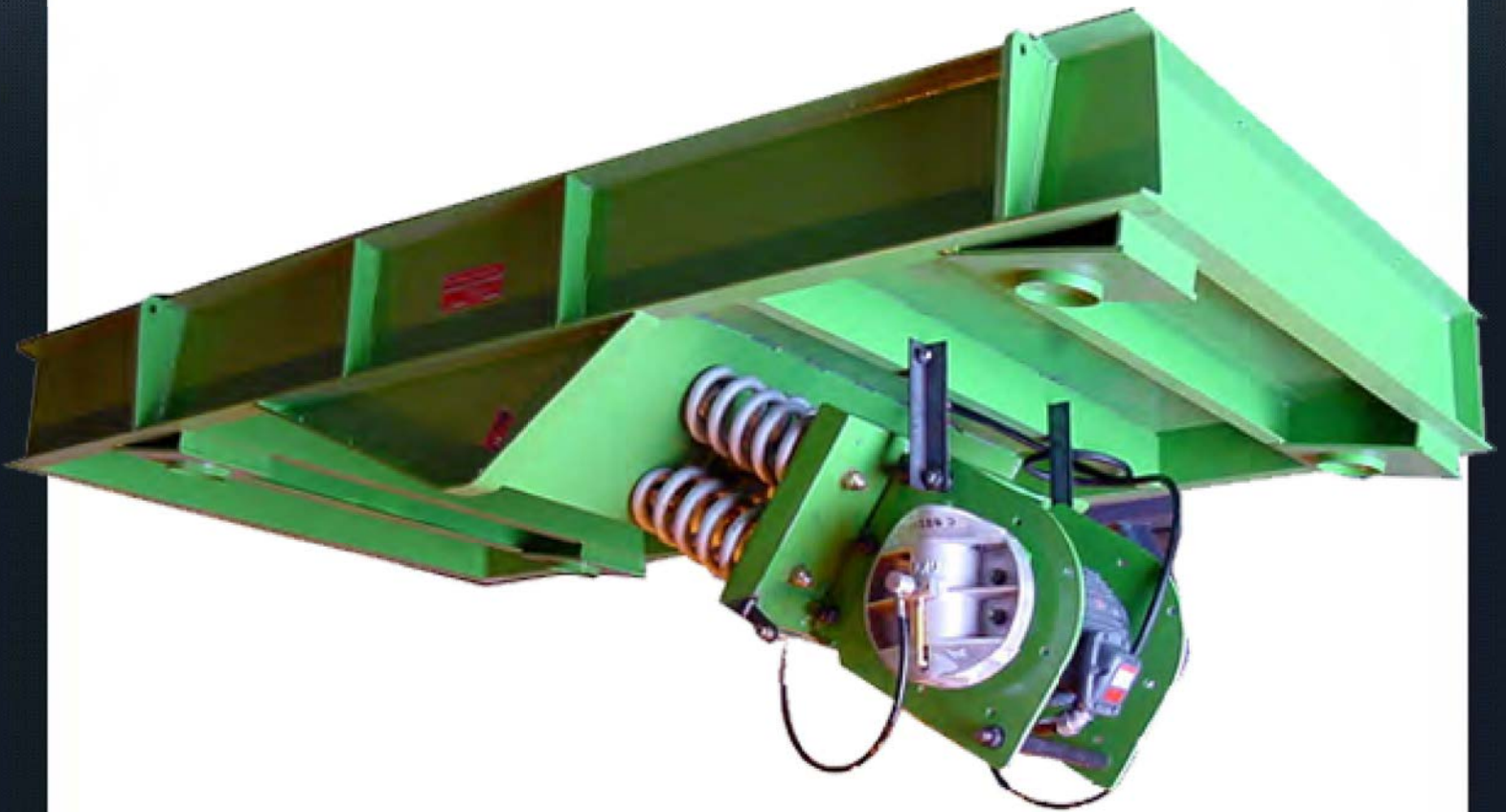


FEEDERS FOR FOUNDRY



PARA-MOUNT II® SAND FEEDERS ALLOY ADDITION
BLAST CHARGING AND MORE

Rugged, reliable & efficient

General Kinematics vibrating feeders offer an unequalled record of dependability and performance in the controlled feeding of bulk materials.

Designed to operate at subresonant natural frequency, our feeders are ideally suited for handling of castings, sprue, or sand. Multiple feeders can be arranged to weigh, meter, and feed raw or finished product.



Casting Accumulation

Energy & cost savings

Economical power requirements and low operating costs are achieved by our PARA-MOUNT II® natural frequency two-mass drive system. By using this method there is a 3:1 reduction in required horsepower over similar brute force designs with a reduction in stress and wear force to the feeder. What this means to you is less money to operate the equipment with more uptime and increased reliability.

Variable Force (VF) Drives

GK's exclusive Variable Force (VF) counterweight wheel design enables PARA-MOUNT II® feeders to smoothly deliver infinitely variable feed rates - from minimum to 100% of design capacity. By pneumatically adjusting the position of counterweights within the wheel in relation to the center of the motor rotation, varying centrifugal force alters the vibratory amplitude and feed rate. By using this method, the motor can maintain a continuous rpm and feed rate can easily be adjusted. Finite adjustments can be made while in process, and advanced control packages can be added to automate the process.

Alloy Addition

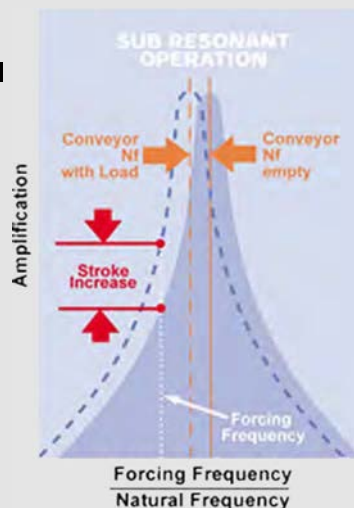


The Principle of Natural Frequency

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.



Typical foundry applications

Recommending the correct design is one of the most important factors in meeting your needs for vibratory conveyors. It goes beyond just fit and finish; our experienced design staff gives careful considerations to product factors such as bulk density, angle of repose, product size, and configuration to name just a few.



Ceramic Lined Feeder



Blast Charging Feeder



Enclosed Sand Feeder



Vibrating Charge Feeders



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.

