

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

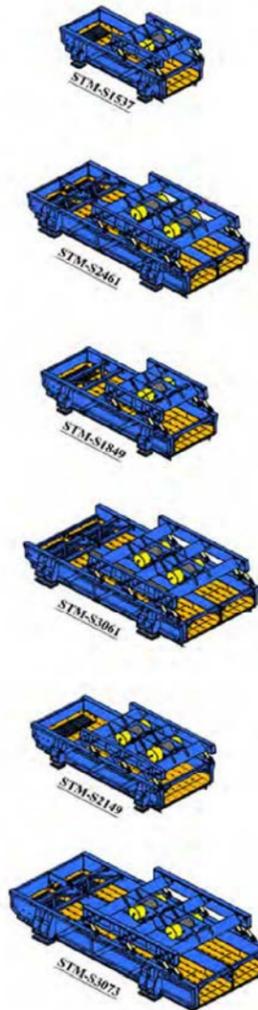
When facing the decision of purchasing capital equipment, a lot is on the line. Will the equipment work as promised? Will the equipment be reliable? Will it be a maintenance nightmare? What if it doesn't work? General Kinematics has proven through one successful installation to the next that our solutions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

GK Highlights

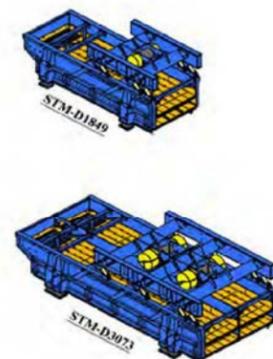
- Extensive install base: 40,000+ installations in 35 countries.
- 24/7/365 customer service and support, with the ability to have a GK service representative on-site anywhere in the world in under 22 hours.
- Available same day shipping on all off the shelf, in-stock components.
- Industry leadership 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 vibratory 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.

STM - S Single Deck Screen Sizes



STM - D Dual Deck Screen Sizes



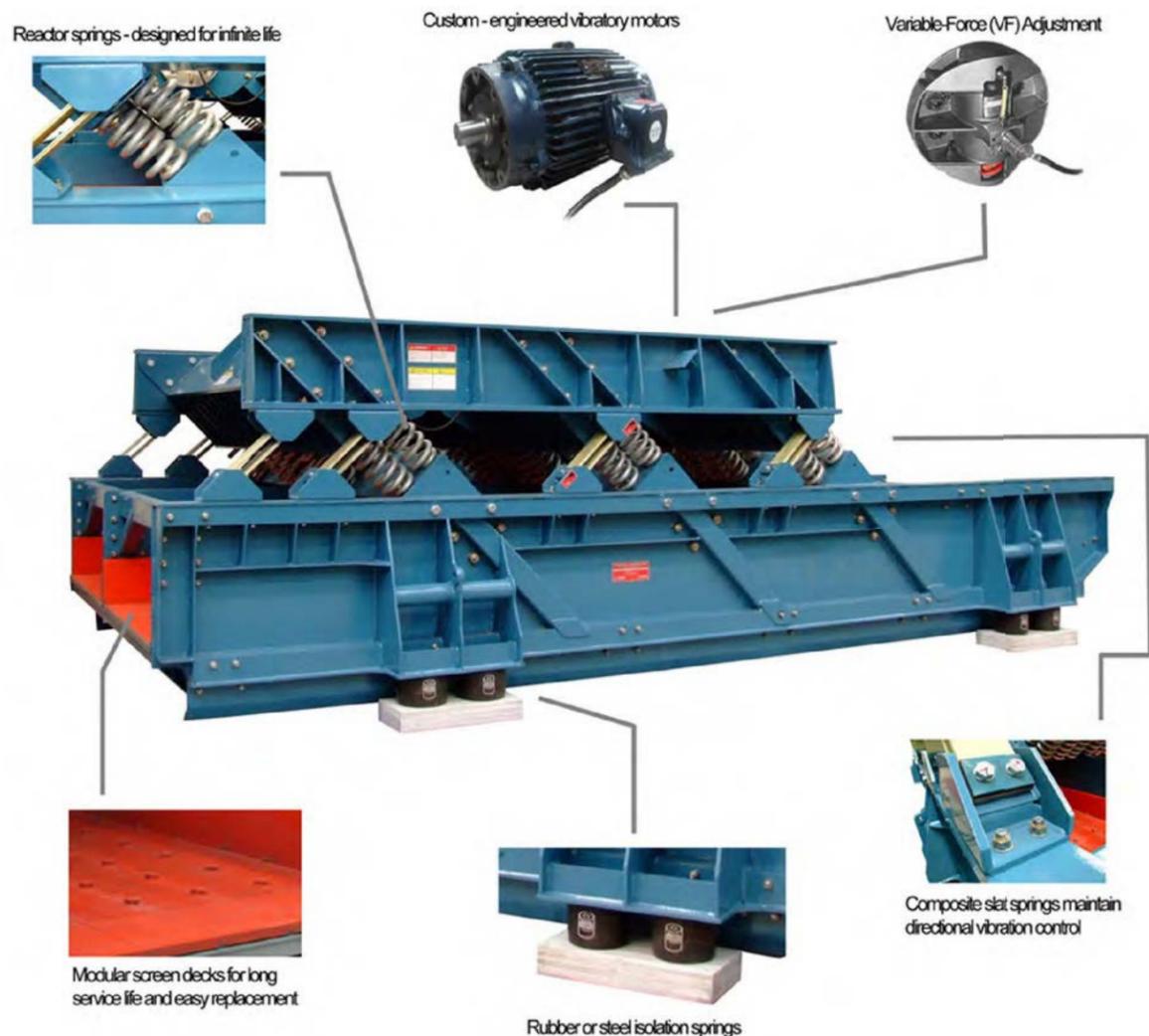
STM-S™

Vibratory Two-Mass Screens



STM-S™ single deck and STM-D™ dual deck series of vibrating screens utilize GK's proven two-mass / sub-natural frequency drive design which uses up to 75% less horsepower than conventional screen designs, significantly reducing energy consumption and cost.

Design Elements



Installations

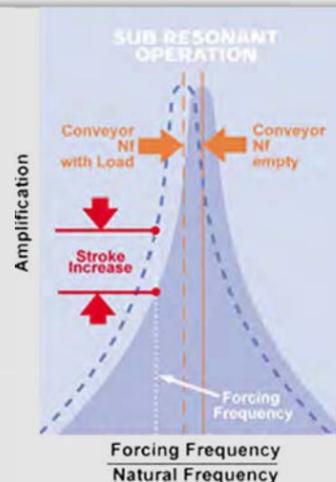


The Principle of Natural Frequency

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.



Comparison of Traditional Screens to GK's STM-S™ Screen

Name (Model)	ZKB-3070	STM-ARC3070
Machine Style	Single-Mass	Two-Mass
Vibration Style	Brute Force	Sub-Resonant
Angle of Attack	45 deg.	45 deg.
Frequency	980	750
Stroke (mm)	5-8	10
Screen Area	21	21
Motor (HP)	2 X 30=60	2 X 9.3= 18.6
Screen Opening	8 X 15	8 X 15
Material WT of Overs	≤5	≤4.8

Energy Consumption

	ZKB-3070	STM-ARC3070
Operating days /yr.	300	300
Operating hours /day	24	24
Energy Consumption /day	60 X 24= 1440	18.6 X 24= 446.4
Energy Consumption /year	1440 X 300= 432,000	446.4 X 300= 133,920
Average Energy Cost /kWh	\$.0707	\$.0707

Cost - kWh /yr. 432,000 X .0707 = \$30,542.40 133,920 X .0707 = \$9,468.14