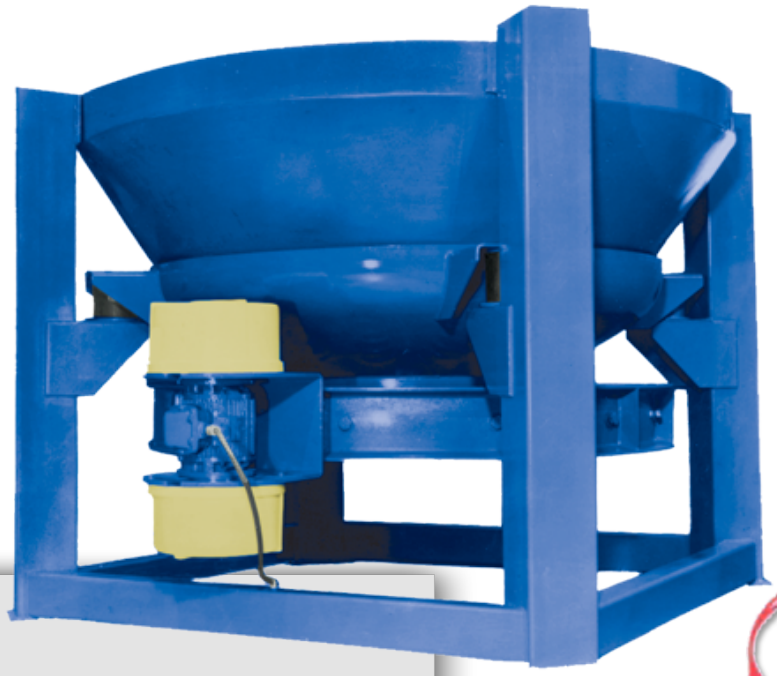
GENERAL KINEMATICS®

Experts in Vibratory... Equipment / Systems / Solutions

HULA-HOPPER®



The General Kinematics HULA-HOPPER® is an improved vibratory equipment concept based on operating principles proven in thousands of General Kinematics installations. Within a single, extremely low headroom unit, HULA-HOPPER® combines material activation, infinitely variable flow rate control, and positive flow shut-off. Yet installation, service and operating costs are dramatically lower than comparable systems.

The Two-Mass Vibratory Advantage

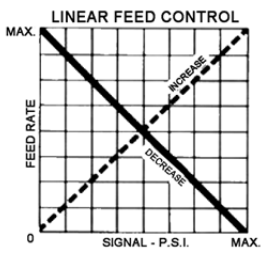
HULA-HOPPER® eliminates many problems associated with more complex brute-force vibratory machinery because of its simplified operating design. As a two-mass vibratory unit, HULA-HOPPER® uses a low horsepower motor drive mounted to an exciter frame (one mass) to exert force on the activator / feeder trough (second mass) through an engineered coil spring reactor system. As a result, a small exciting force is magnified by sub-resonant frequency vibration producing a controlled deck vibration where the work energy is largely produced by the reactor springs. Electric power needs are therefore minimal, starts and stops are smooth, and wear and tear is greatly reduced because of the low forces involved with a two-mass vibratory design.

Oribtal Action Eliminates Compacting, Segregation

True horizontal orbital action prevents head load compacting and bridging, because only material drawn out is activated. Hopper and dome configuration assures material is discharged in original particle size distribution.

Fully Controlled Flow Rates

With a General Kinematics Variable Force drive, HULA-HOPPER® delivers infinitely adjustable flow control from zero to maximum TPH. The V-F control incorporates adjustable counter-weights which vary the centrifugal force, changing the vibratory amplitude. Counter-weight force can be controlled locally or by remote signals from computer, load cells, belt scales, or other automated feed-back systems. A further benefit is the elimination of complicated motor speed or voltage controls, which results in longer motor life.



GENERAL KINEMATICS CORPORATION
USA | Germany | United Kingdom | China | India | Thailand

Ph. 815 - 455 - 3222 | mail@generalkinematics.com
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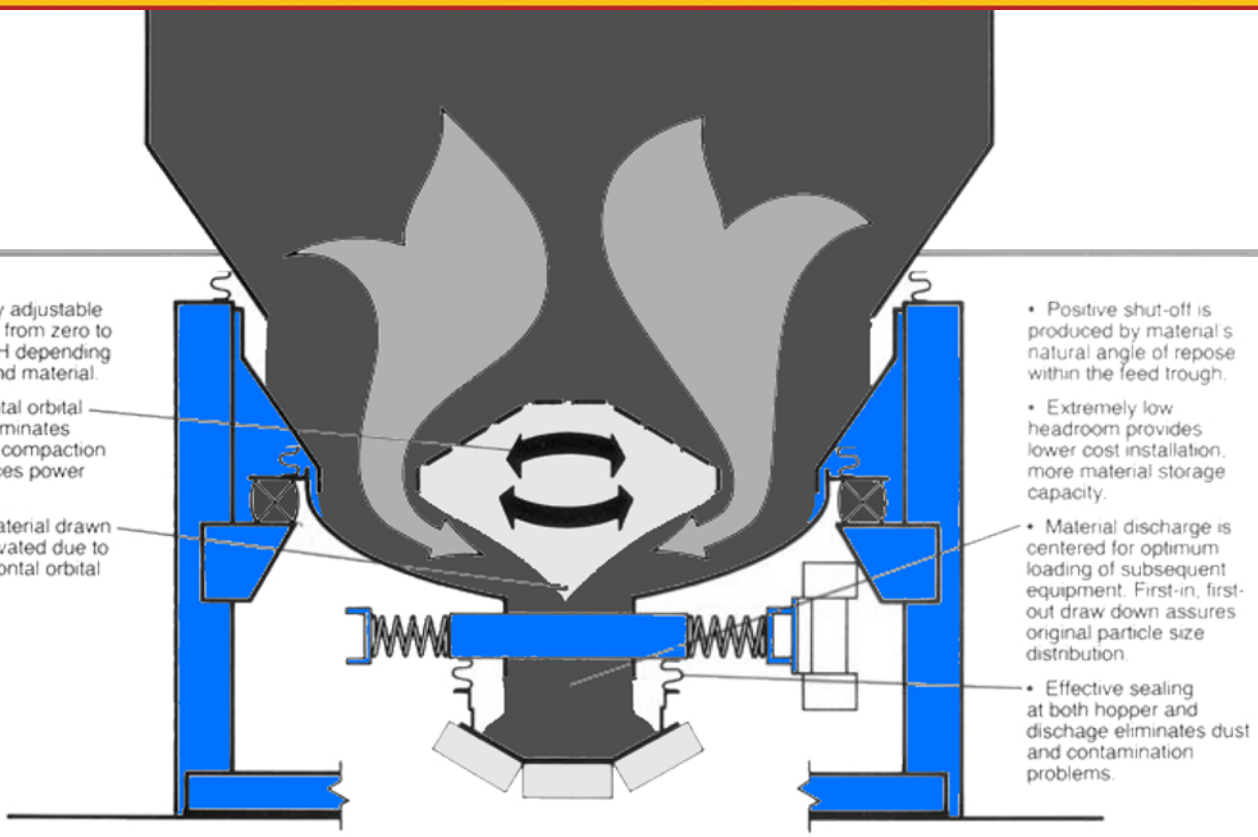


Positive flow shut-off

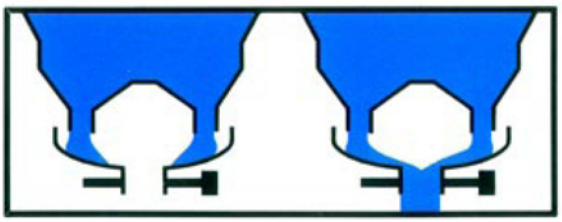
The HULA-HOPPER® design provides absolute flow shut-off, eliminating the need for supplemental feeders, gates, or other flow control devices. When the unit is deactivated, material discharge stops and seeks its natural angle of repose within the feed trough.

Lowest installed headroom

There is no easier and lower cost installation than the HULA-HOPPER®. With envelope dimensions as little as 32", HULA-HOPPER® minimizes headroom requirements and maximizes bin or silo storage capacity. Free standing, self-supporting design also does away with structural complications and elaborate suspension systems.

Design Versatility

As a world leader in vibratory equipment technology, General Kinematics is recognized for innovative, reliable engineered systems. The HULA-HOPPER® is no exception. With the advantage of using performance proven components, including a self-contained motorized drive, the HULA-HOPPER® is rated for long, trouble-free service under the most difficult operating conditions. HULA-HOPPER® is recommended for bin, silo, hopper and other bulk material storage systems.



At rest. *Material at natural angle of repose. (left)* ***Operating.*** *Material flow through feeder. (right)*

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