

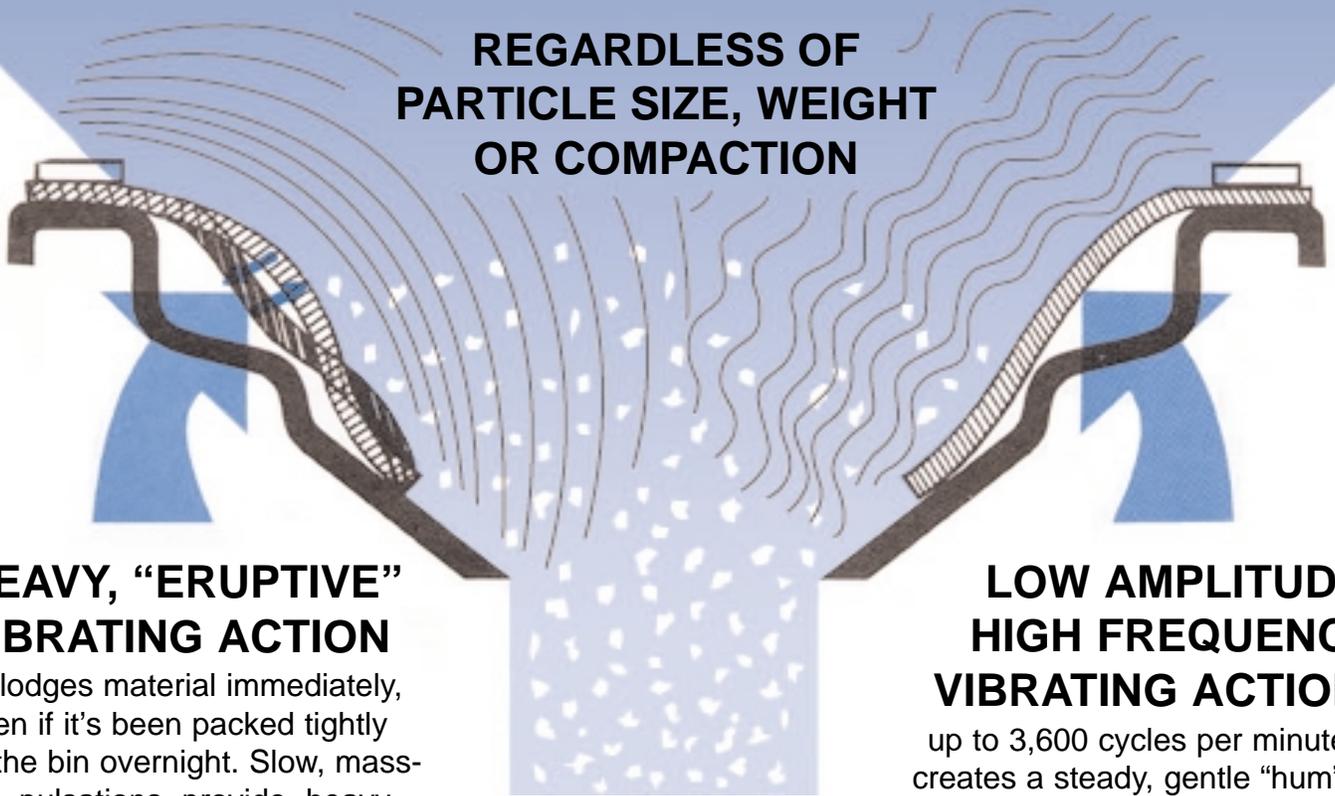
VIBRACONE

SELF COMPENSATING

BIN ACTIVATOR/DISCHARGER

PROVIDES INSTANT START-UP
AND KEEPS MATERIAL MOVING...

REGARDLESS OF
PARTICLE SIZE, WEIGHT
OR COMPACTION



HEAVY, "ERUPTIVE" VIBRATING ACTION

dislodges material immediately, even if it's been packed tightly in the bin overnight. Slow, massive pulsations provide heavy, irregular thrusts to activate the material and get it moving.

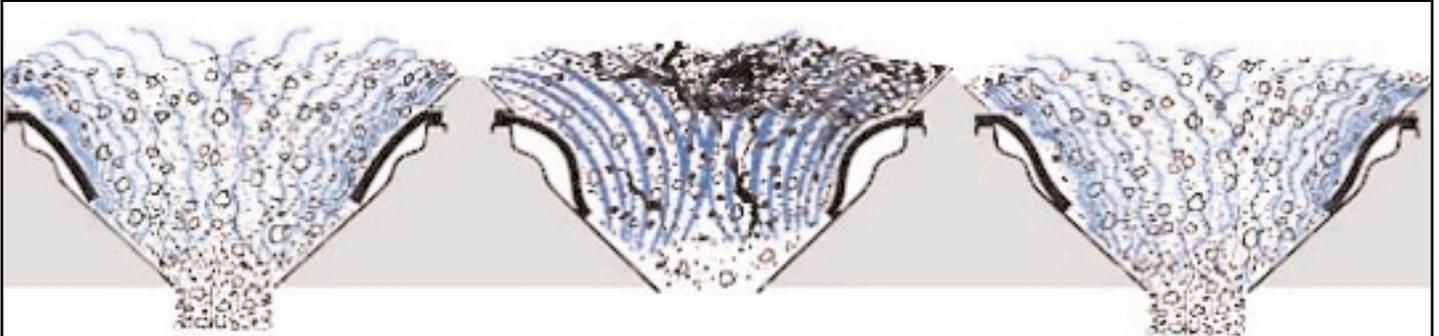
LOW AMPLITUDE, HIGH FREQUENCY VIBRATING ACTION-

up to 3,600 cycles per minute—creates a steady, gentle "hum" to keep a stream of material moving at a constant speed.

**EXCLUSIVE,
COMPLETELY AUTOMATIC OPERATION
ALLOWS VIBRACONE TO SELF-ADJUST
TO MEET CHANGING FLOW CONDITIONS.**

If material characteristics change during operation, Vibracone automatically adjusts its mode—moving from moderate to heavy vibrating action immediately—WITH NO NEED TO ADJUST AIR PRESSURE. Vibracone is completely self-regulating.

EXCLUSIVE ADVANCED DESIGN VIBRAZONE... ENGINEERED TO SOLVE BRIDGING & BIN DISCHARGE PROBLEMS



Even free-flowing, easy to move particles will not flow at a steady, controlled rate without the proper amount of vibration and aeration. During its free-flowing high frequency vibrating mode, Vibrazone is in near equilibrium with the product being moved; its amplitude is about 1/32 of an inch. The result is a continuous, gentle vibrating and aerating action that discharges particles efficiently and steadily, with no wear and tear on the bins.

At startup of a bin which has been idle overnight, material may be compacted so tightly that bridging has occurred. Or,

during normal operation, it is not uncommon for a massive slug of material to fall in and block the bin cone. Only Vibrazone is engineered to overcome such bridging problems automatically. Remember, Vibrazone always seeks equilibrium with the pressure exerted upon it: As pressure increases from heavy loading, Vibrazone immediately increases its amplitude to send bridge-breaking shock waves higher into the bin. Vibration changes from a steady hum to a heavy, irregular thrusting action to maintain material flow and prevent plugging. This increase in amplitude is up to 10 times greater than what has been possible in the past.

Once a slug is broken up, Vibrazone returns to its normal operating mode—automatically, with no need to adjust air volume. During this mode, Vibrazone's aeration air increases material flow characteristics. Or, Vibrazone can be adjusted so that its air seal is always maintained: Vibrating action will continue with no release of air into the material. This is useful in special applications where aeration would be detrimental to the product.

THE SYSTEMS APPROACH TO MATERIAL FLOW

At United States Systems, as our name suggests, we believe in the systems approach to bin storage and discharging. Material flow is our only business, and we have years of experience in the engineering, design and manufacture of bin storage, hopper discharge, and pneumatic conveying systems for virtually all bulk products. We can show you how to solve your material handling problems efficiently and economically.

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