

The Bin Activator



the power
in
powders

The Bin Activator

“controlled discharge of all materials is vital to modern process systems.”



The Bin Activator is extensively used to ensure the product is discharged efficiently and effectively in a controlled manner from a silo or hopper.

Many products do not flow freely and the Bin Activator, by applied vibration, ensures that the product, whether fibrous, granular, flake or fine particulate, is discharged in a mass flow condition.

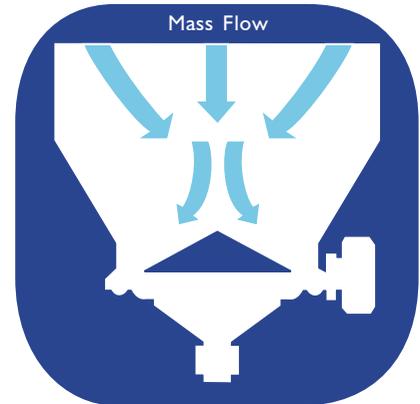
A Bin Activator consists of a spun steel dish onto which a discharge cone has been bolted. Across the dish are a number of welded cross-members that support the

internal baffle cone. A vibrator motor - two on some sizes - is bolted on the outside of the dish. The degree of vibration is adjustable by means of a pair of out-of balance weights situated at each end of the motor.

The whole assembly is suspended beneath the outlet of the silo on a number of suspension rods located in rubber isolation mounts, to ensure that vibration is not transmitted up the silo walls. These rods are attached to the hopper of the silo via a support ring which is welded or in some cases bolted to the hopper.

A rubber sleeve secured by clamps, seals the gap between the support ring and the Bin Activator assembly.

The diameter of the internal baffle cone is smaller than that of the Activator. The resultant annular gap between the two is preset to give the flow of material required.



important features

- Continuous yet controlled flow.
- Mass flow is induced.
- Very low maintenance.
- Reduces silo height, saving space and costs.
- Eliminates problems such as rat-holing, bridging, degradation, segregation and flushing.
- 30,000 sold worldwide.
- Wide range of sizes and applications.

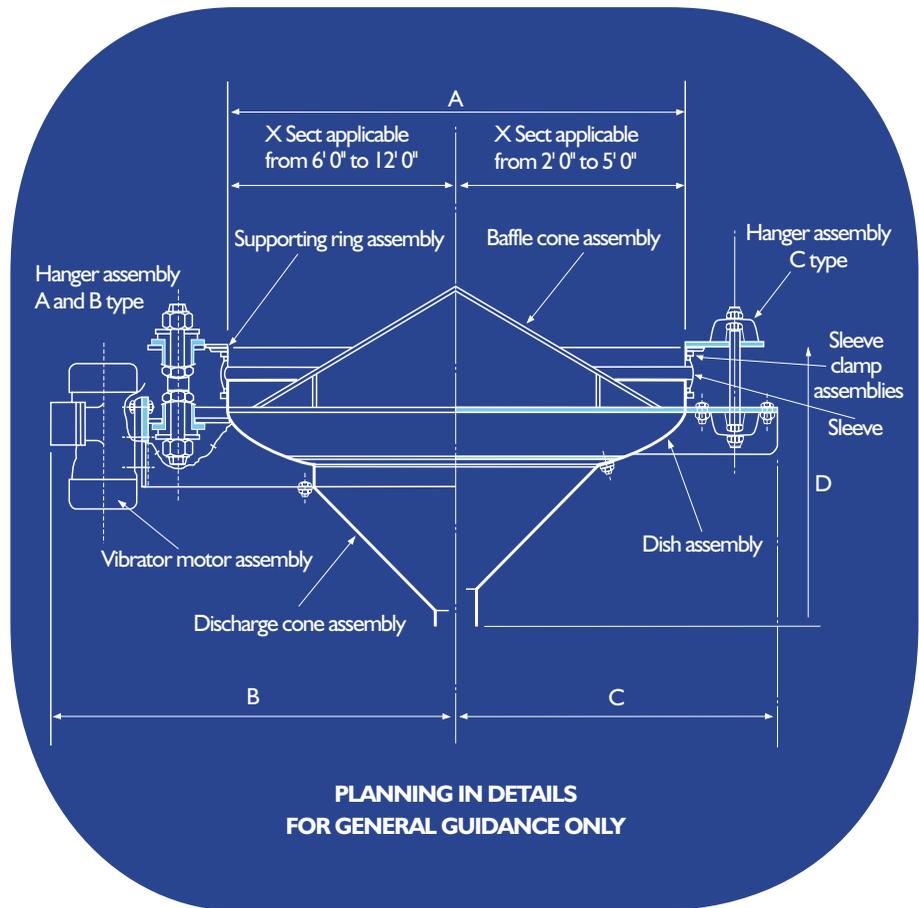
Carolina Conveying's expertise in handling diverse and difficult materials ensures that the correct equipment is specified for your application.

installation

The Bin Activator is a preassembled, self contained unit which can easily be fitted to new or existing silos.

The support ring supplied with each Activator is welded, or bolted, to the hopper outlet.

The Activator is then suspended from the ring by the suspension rods and the flexible sleeve is fitted between the ring and the Bin Activator ensuring dust-tight operation.



size selection

The size of the Bin Activator is determined by many parameters including - the size of the silo, the material characteristics and the discharge throughput required. This can vary between $\frac{1}{3}$ of the diameter of the silo, for free flowing materials, to the same diameter for fibrous or flaky materials.

Other parameters are also considered in order to optimize the specification.

The Carolina Conveying Sales Engineer has at his disposal a computer program which will calculate the headload acting upon the Bin Activator.

The Bin Activator is ideally suited to a cylindrical hopper, but it can be successfully applied to square or rectangular bins.

specification

sizes	dimensions				horse-power
	A	B	C	D	
2'	2'.0"	2'.2"	1'.7"	1'.5"	0.33
3'	3'.0"	2'.8"	2'.1"	1'.10"	0.33
4'	4'.0"	3'.5"	2'.8"	2'.2"	0.67
5'	5'.0"	4'.1"	3'.1"	2'.4"	1.29
6'	6'.0"	4'.8"	3'.8"	2'.5"	2.40
7'	7'.0"	5'.2"	4'.2"	3'.0"	2.40
8'	8'.0"	5'.10"	4'.9"	3'.7"	2x2.40
9'	9'.0"	6'.4"	5'.3"	4'.5"	2x2.40
10'	10'.0"	6'.10"	5'.9"	4'.8"	2x2.40

All dimensions in inches

Dimensions subject to change without notice

size range

2'.0" to 10'.0" diameter. Sizes above 10' can be supplied if required.



Carolina Conveying

Specialists

in powder handling components and systems. We offer a very comprehensive range of products including Rotary Airlocks, IBC Systems, Diverter Valves, Silo Dischargers, Volumetric and Weighing Systems, Aero-mechanical Conveyors and Dense Phase Conveying Systems.

Carolina Conveying

Technology

product test facility with our complete range of machines allowing prospective clients to visit and witness trials. State of the art CAD and manufacturing facilities for material handling systems.

Carolina Conveying

Design

products are always designed to suit your particular application and requirements.

Carolina Conveying

Philosophy

our policy is to supply customers with products which conform to the highest quality specifications, are fit for their intended purpose, and offer a wide range of support services including installation, commissioning and service contracts.



Bin Activators

Soliflo™ Dischargers

Solibin™ IBC Systems

Bulk Bag Systems

Rite Rate™ Feeders

Rite Weight™ Feeders

**DiscAir™
Aeromechanical
Conveyors**

**Blo-Bin™ Dense Phase
Pneumatic Conveying**

**Blo-Bend™ Ni Hard
Bends**

Rotary Valves

Side Entry Rotary Valves

Blow Thru Rotary Valves

Double Dumps

**Flexible Conveying
Diverters**

**Flap Conveying
Diverters**



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