

## How to get difficult-to-handle powders to flow out of your silos, bins and hoppers.

It is said that TiO<sub>2</sub> powder material will stick on a vertical surface. It is true. We have seen it in processing plants and our test lab. In addition, TiO<sub>2</sub> powder will build up and blind off a vessel's discharge opening. Other materials made up of cohesive fine particles like pigments, clays, sterates, etc are also difficult to discharge.

### The SilentFlow® Bin Discharger solves the problem of getting difficult-to-handle powders to flow out of your silos, bins and hoppers.

Standard sizes 18" to 72" diameter with 60° cone angle. 45° and 30° cone units available for low headroom applications.



### SilentFlow® Bin Dischargers replaces existing silo cones and live bottom vibrating bin dischargers for reliable discharge of difficult flowing materials

Over the years vibratory bin discharges, mass flow cones, fluidizers and air cannons have been used in an attempt to solve cohesive powder discharge flow problems. However, these devices have been used with less than acceptable results causing losses in production because of process bottlenecks and downtime. Companies that use cohesive powders and pigments in their processes have had to resort to some fairly drastic means to get these materials to flow.



Custom sizes, cone angles and materials of construction offered as well as replacement designs

The SilentFlow® Bin Discharger was developed to solve the problem of reliably handling and discharging difficult flowing materials. The SilentFlow® Bin

### SilentFlow® bin discharger replacement unit with TransFlow® inside



Discharger uses Trans-Flow® fluidizing media to condition the material to greatly reduce its internal friction angle. This allows the powder to freely discharge from cone openings as small as 4" in diameter.

### With no moving parts, no vibration, no electrical connections, no inlet socks to leak or need replaced, no stress cracking of your silo or bin cone and the quiet operation; the SilentFlow® Bin Discharger will reduce your maintenance cost.

The features and benefits of the SilentFlow® Bin Discharger are:

- Replaces existing silo cones and live bottom vibrating bin dischargers for reliable discharge of difficult flowing materials
- Aids flow of materials that normally pack, bridge or hang-up
- Uses very low volume and low pressure air of plant compressed air
- Units replacing live bottom vibrating dischargers
- Increase discharge reliably as well as decrease noise and maintenance.
- Low profile design allow larger capacity hopper to fit in limited headroom areas
- No moving parts
- Restores flow ability to materials that tend to pack
- Reduces or eliminates particle segregation
- Used in the chemical, petrochemical, food, ceramic industries

For additional information visit:  
www.younginds.com/SilentFlow or call 570-546-3165 or email us at mktinfo@younginds.com