

## Bolt-On Cone Vibrator

Heavy-duty bolt-on solutions

### The Problem:

A manufacturer of plastic powders and pellets was experiencing material flow problems in a hopper below a storage silo. The silo contained plastic powder that would not discharge into the below rotary feeder at various times of the year. The operator would strike the silo with a hammer in order to restore flow to the rotary feeder. These hammer blows resulted in unsightly markings on the silo and created raised points inside the cone section, which further contributed to poor material flow. Due to a special coating on the inside of the cone section, the typical method of installing vibrators by welding mounting brackets was not feasible.

### The Solution:

NAVCO was approached with the problem and asked to offer a solution. After careful review, NAVCO created a concept derived from our Pipe Bracket System (PBS). The PBS is a vibrator system that is traditionally designed for use on pipes with uniform diameter.

The concept was shared with the customer and approval was given to move forward with fabrication of the assembly. The first unit was installed in late 2013 with the purchase and installation of a second unit in early 2014.



Advantages of the Cone Vibrator Bracket include:

- Custom, rigid industrial construction
- No shut down required for installation - process dependent
- Installation can be completed using common tools - no welding required
- The customer has been thoroughly satisfied with both units. Material flow is easily restored during periods of difficulty and has allowed for consistent throughput in the process.

NAVCO takes pride in partnering with our customers to create solutions that add immediate value to their processes. Using our thorough knowledge of bulk material characteristics and the application of vibration technology, we are able to custom engineer innovative products that provide answers to unique material flow problems.

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