



## NAVCO® Pipe Vibrators Clear Coal Chutes

### THE BACKGROUND

A coal fired power plant in the Northern United States experienced build-up in coal chutes directly above the feeders. To clear the chutes manually was a very labor intensive and hazardous operation. Several solutions to the problem were tried-including vibrators mounted in a variety of different configurations. However, due to the severity of the problem and the difficulty in mounting a vibrator on a pipe at the flow restriction, the attempts were not successful.

### THE OBJECTIVES

When NAVCO® was contacted about the flow problem, the following objectives were identified:

- n Provide a rigid mounting assembly to mount a vibrator to a pipe.
- n Maximize the area of influence of the vibrator.
- n Provide an assembly that could easily be relocated to changing flow restrictions.

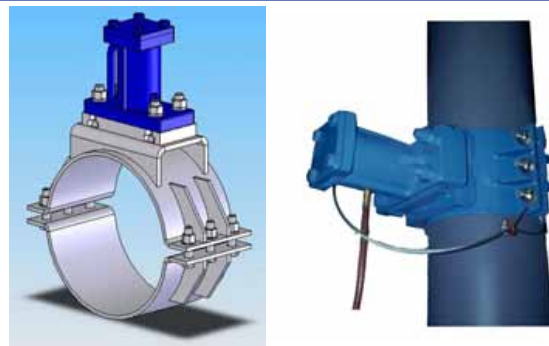
Specify the correct vibrator size and type for the optimum results.

### THE NAVCO SOLUTION

With the objectives in mind, the new NAVCO® Pipe Vibrator was developed.

#### The new design provides:

- n Rugged construction of the bracket to provide reinforcement of the pipe.
- n Maximum surface area contact to transmit the vibration energy directly through the pipe and into the material.
- n clamping assembly that can easily be loosened and moved to changing flow restrictions.
- n A repetitive short time duration impulse vibrator for effective vibration and efficient vibration energy transmission to the chute/coal interface.



The new NAVCO® design performed successfully and has been installed at several locations in the plant, both above and below the feeders. In addition, the units are currently in use at a number of power plants and other industries where dry bulk solid materials are handled.

NAVCO® Pipe Vibrators are manufactured to order for any size pipe or chute and vibrator. The unit is provided complete with safety cables and fasteners.

**Huntsman, Inc. ▼ 2362 Warren Ave. ▼ Twin Falls, Idaho 83301**

(877) 733-2214 ▼ (208) 733-2214 ▼ Fax (208) 733-2240  
[www.huntsmaninc.com](http://www.huntsmaninc.com) ▼ [mail@huntsmaninc.com](mailto:mail@huntsmaninc.com)