

Solutions for unloading Coal Railcars

Rail Side Car Shaker - designed to facilitate the unloading of coal from rapid discharge railcars. The Rail side Shaker is easily installed at ground level adjacent to the rail. Electric or Pneumatic. Bulletin # 2000.300

Overhead Car Shaker - a unique, very heavy duty unit designed to facilitate unloading of older steel or aluminum coal cars. A hoist / trolley system is required for handing the Overhead Car Shaker. Bulletin # 2000.301

Rotarymatic System - a proven vibration system designed to facilitate complete unloading of Railcars being handled by a rotary dumper. Bulletin # 2000.403

A Single Mass, Brute Force vibratory feeders are excellent as reclaim feeders. JVI Feeders are low maintenance, do not require tuning and can run full or empty.

Solutions for Railcar Dump Hoppers

BH Pneumatic Piston Vibrators - Efficiently and effectively promotes coal flow from railcar dump hoppers.

Solutions for Separation and Crushing

Grizzly/Spreading Feeders - distributes coal evenly across the full width of the crusher. This approach effectively distributes the load to eliminate localized / uneven wear to the crusher. By allowing fines to bypass the crusher a gain in efficiency and capacity in the crusher results.

UPF Vibratory Feeder - The Single Mass, Brute Force vibratory feeder is ideally suited to discharge coal at high capacities from railcar dump hoppers. JVI Feeders are low maintenance, do not require tuning and can run full or empty.

Solutions for Conveyors Chutes and Bunkers

Big BHs are the best flow aid device available for facilitating coal flow through bunkers. A large area of influence, effective reduction of material sliding friction and consolidation strength, plus the ease of installation helps make Big BHs the tool of choice over blasters, air rotaries and other flow aids. Bulletin # 1000

BH Pneumatic Piston Vibrators - are excellent for promotion of flow and preventing sticking of coal on transfer chutes throughout the coal yard and in the plant. Bulletin # 1000

Solutions for Ash & Slag Handling

Rapper Systems are used to remove slag in several areas of the furnace including eyebrows over the burners and water walls in the super heat areas.

Rapper systems for Electrostatic Precipitators are recognized by many plants as the most effective method available for cleaning precipitator electrodes. Distribution baffles and precipitator hoppers can also benefit.

Precipitator or Baghouse

Fly Ash

Pneumatic Piston Vibrators - are ideal as a flow aid in the high temperature area of the economizer. NAVCO offers special mountings to carry heat away from the vibrators. Bulletin # 1000

Big BHs - are ideally suited to keep wet ash flowing through hydrobins. This can be a difficult application and is best handled by the unique high stroke, low frequency, short time duration impulse. Bulletin # 1000*

***Exciting Alternate Solution for New Facilities**

The TITAN - This field proven proprietary hopper discharge system utilizes heavy duty JVI feeders with special controls. The TITAN is designed to utilize the efficiencies of railcar dump hoppers with long slotted discharge openings (vs traditional pant leg type hoppers). The efficiencies include optimum geometry for high volume shallow excavation pits, and excellent material flow characteristics.

Scrubber & Lime Handling - Pneumatic Piston Vibrators help facilitate the flow of lime from railcars, bins and hoppers. They also work well on trucks and railcars that transport lime and scrubber sludge.

Solutions for Pollution Control Equipment

We have experience assisting with the handling of urea and PRB coal too.

NAVCO Pneumatic Piston Vibrators - work effectively to facilitate the flow of fly ash out of electrostatic precipitators and baghouse hoppers. Piston vibrators installed on the lower tube sheet of bag houses keep fly ash from building up in the bag thimble area. This keeps velocities low, conserves bag life and helps maintain low differential pressures.

