

# AIR CANNONS



Air Cannons have a lot of power, but no control. AirSweep® breaks material blocks efficiently—for better flow at lower cost and damage to your vessels



## FUNCTIONALITY

- ▶ Designed to shoot large volumes of air into the vessel to displace stalled material, break bridging and restore flow
- ▶ Directs smaller, equally powerful bursts of air along the bin wall, lifting material off the wall and back into the flow stream
- ▶ Eliminates bridging, ratholing, or sticking problems
- ▶ Stimulates up to an 2.44 m (8 foot) diameter circle of material around each nozzle



## EFFICIENCY

- ▶ Air tends to “channel” through holes in the material, greatly diminishing effectiveness
- ▶ Danger of immediate release of a large plug of material, which can cause silo collapse
- ▶ Cannot control feed rates
- ▶ Fully clears each batch from the bin, ensuring smooth and safe first-in/first-out material flow
- ▶ Controllable feed rates



## MAINTENANCE

- ▶ Open nozzle extends into bin and material; dust can enter the nozzle and solenoid, resulting in frequent shutdowns for cleaning and costly replacements
- ▶ Large recoil when fired; flexes the vessel walls, leading to long-term metal fatigue and damage
- ▶ High energy cost
- ▶ Patented nozzle immediately reseals after quarter-second pulse, eliminating material feedback
- ▶ Only needs inspection every 6 months, and replacement of parts after 1,000,000 cycles
- ▶ No damage, vibration, stress or wear to vessel walls
- ▶ Uses as little as 10 CFM of compressed air or gas
- ▶ Industry's longest warranty of 7 years



## WORKER SAFETY & CONVENIENCE

- ▶ Extremely noisy! The noise transmits through entire production area, adding to worker stress
- ▶ Even if bridging is controlled, material build-up on bin walls requires periodic shutdowns for cleaning
- ▶ Makes a quick, ear-friendly "psst" or "pop"
- ▶ Reduces workload: can be used to provide on-demand flow or automatic cleaning/flushing of vessels



## MATERIAL CONTROL

- ▶ Wet, sticky material can still cling to vessel walls
- ▶ Not suitable for food and sanitary applications
- ▶ Effective for all materials, including moist, sticky and heavy powders and bulk solids
- ▶ USDA-accepted models available

**ASK US ABOUT OUR MONEY-BACK GUARANTEE AND ROI CALCULATION**



**YOUR AIRSWEEP® SOURCE:**