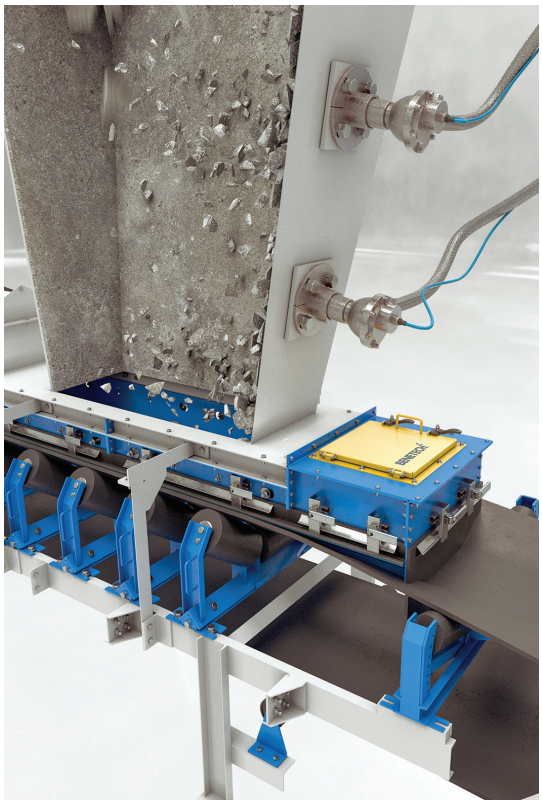
DISLODGES DRY, WET, FROZEN, & STICKY MATERIALS

Clean Sweep Air Control System

Using standard plant compressed air at 80 to 100 psi, the Clean Sweep air control system removes buildup of dry, wet, frozen, or sticky materials from the walls of chutes, bins, hoppers, silos, and bunkers.

The loss of material flow due to pluggage is virtually eliminated by installing Clean Sweep's correctly-positioned nozzles. The nozzles fire automatically and unsupervised — in a predetermined order and at regular intervals — without interfering with normal material handling operations.

Each nozzle is supplied with a precise burst of air through a quick open/close air-operated solenoid as compressed air is delivered sequentially to the nozzles. This process prevents material to crust or layer, dislodging and breaking up any potential accumulations, so it can be easily carried away by gravity and flowing material.



CLEAN SWEEP NOZZLES

- Each nozzle emits a pressurized, high-volume burst of compressed air to dislodge material
- Directs air 360° along surface of chute for a distance of approximately 2-3 feet
- Nozzles fire automatically and unsupervised — in a predetermined order and at regular intervals — without interfering with normal material handling operations

PROBLEM MATERIALS

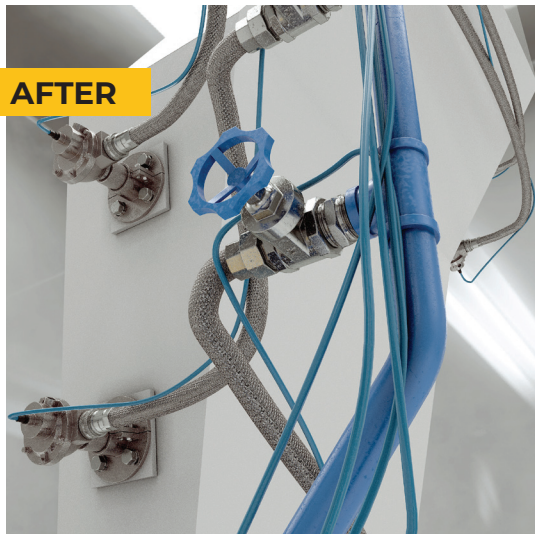
- Aluminum
- Bentonite
- Cement
- Coal
- Copper
- Fly Ash
- Grain
- Iron Oxide
- Limestone
- Salt
- Shale
- Soda Ash
- Soybeans
- Sugar

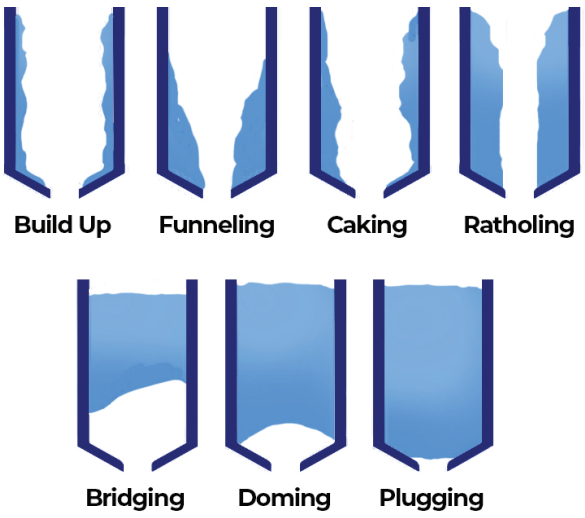
Eliminates Build Up & Keeps Material Free-Flowing

FEATURES & BENEFITS

- Each nozzle directs air 360° along the surface of the chute for a distance of approximately 2-3 feet
- Uses standard 80 to 100 PSIG (15 SCFM, 0.1 sec.) plant compressed air
- Operates on 120 VAC single-phase power
- Air tank and control station are accessible at ground level – No need to install on chutes, silos, or bunkers
- Timing sequence and firing rates can be customized to accommodate various chute configurations

Productivity, Maintenance, Performance, Health & Labor Savings





COMMON PLUGGAGE PROBLEMS

- **Build Up or Scaling —** Sticky material adheres to all sides of the chute
- **Funneling —** Material adheres to angled locations within the chute or hopper
- **Caking —** Sticky material builds up on inner walls at various locations of the chute, silo, bin, or hopper
- **Ratholing —** Material builds up on the inner walls of the chute, limiting material throughput
- **Bridging —** Material bridges across the inner walls of the chute, preventing material flow
- **Doming —** Material gets trapped at a certain level creating a dome as material continues to pile up above it
- **Plugging —** Material sticks to the inner walls causing a complete prevention of material flow

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