

AIRSWEEP® SOLVES A 4-YEAR-OLD MATERIAL FLOW PROBLEM IN JUST 2 WEEKS

Asphalt is made from aggregates, sands and asphalt cement. **The materials have a tendency to conglomerate and compact in the silos.** However, other flow aids like electric vibrators actually pack the material even more.

THE PROBLEM

HAMMERS ARE A SAFETY RISK

This was exactly what happened in the Mexico plant of a regional manufacturer of asphalt products. Despite having electric vibrators, plant workers still had to hit silos with a hammer or climb in the vessel to clean it.

“Over the weekend, when the plant was unstaffed, the asphalt materials would settle completely. When workers returned on Monday, they had to climb seven meters down into the dark silo, and clear thick layers of compacted material just to get the factory running again,” they said.

Their “Monday Morning Cleanup” wasted time, money, and most importantly, put their workers at risk. The company wanted to show their employees that they cared about their safety, and traded the hammers for an effective and reliable material flow aid system.

THE SOLUTION

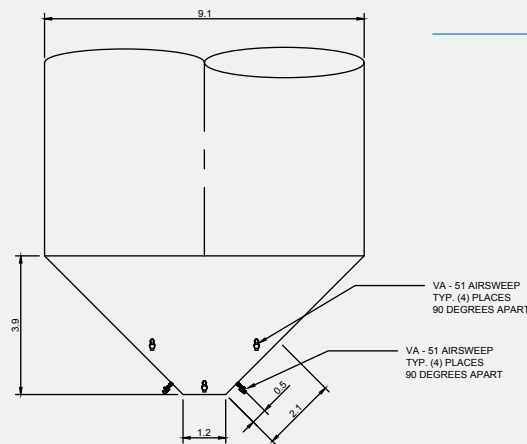
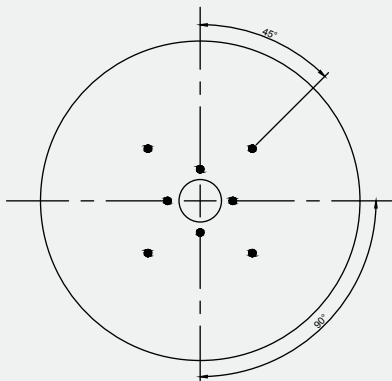
WE GIVE EXTRA POWER – AND GO THE EXTRA MILE

Control Concepts sent the AirSweep® system for a free trial. The system was customized according to their client’s process and vessel size. [The AirSweep® Model VA-51](#) unit was ideal for large silos, and had the power to activate 6 to 8 feet (1.8 m to 2.4 m) of heavy material with one pulse. Eight units were positioned at to ensure first-in/first-out on-demand flow.



The cones were made of concrete, but an engineer visited the site and quickly resolved the issue. After inspecting the vessel, he recommended adding a metal sheet – a cheap, fast and effective workaround. After two weeks, the plant manager called to congratulate them.

“After four years, we finally have the right solution! We are very happy with the system.”

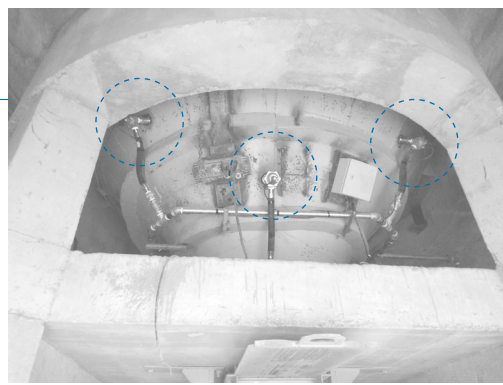


Customized CAD drawing of customer silo with AirSweeps® placement

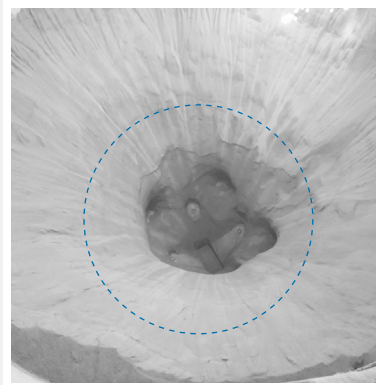


Model VA-51
2" AirSweep® System

AirSweep® system installed



Inside bin



THE RESULT

REDUCED BUILD-UP, NOISE AND ENERGY CONSUMPTION

The AirSweep® system has kept the sticky asphalt flowing, and their process going. They have saved time, energy, money from maintenance costs and losses from downtimes. Workers were safe, and free to focus on their real jobs. They are looking to install units in their other plants – and retiring the hammers for good.





Control Concepts, Inc. provides a 7-year warranty on the AirSweep® unit.

MORE INFORMATION

Read our other case studies for materials used in the Construction Industry:

- ▶ [Fly Ash](#)
- ▶ [Shale](#)
- ▶ [Moist Sand](#)
- ▶ [OSB](#)

AIRSWEEP® IS USED BY COMPANIES SUCH AS



AIRSWEEP® IS USED BY MORE THAN HALF OF S&P 500 COMPANIES

Contact us for a custom engineered AirSweep solution

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