



# PROBLEM SOLVED™ PAPER

**SOLUTION:** Martin® Multi Valve Air Cannon

**INDUSTRY:** Cement

**LOCATION:** A Cement Plant in Panama

## PROBLEM

Previously, at a cement plant in Panama, workers were experiencing some difficulties achieving their volume needed due to the preheater's spoon. The issue developed because of the number of air cannons needed to keep the material flowing, was limiting the physical space. The plant realized they needed to address the problem and find a solution that would fulfill the primary function of promoting material flow, but also optimizing space.



*The workers at a cement plant in Panama were running out of space around their preheater.*

## SOLUTION

To eliminate the problem, Martin recommended the installation of the Martin® Multi Valve Air Cannon which has an advanced valve design with up to five independent valves housed in a single tank. This unique design gives five points of application in a single container, which provided a solution to the space problems presented at the plant. The cannon was installed in the preheater's spoon to provide even more physical space to the area.



*The Martin® Multi Valve Air Cannon improves flow at five discharge points.*

## RESULTS

The installation of the Martin® Multi Valve Air Cannon resulted in greater access to the preheater's spoon. The customer is happy with the change and now has better access to the preheater and is better able to keep the area clean. The maintenance process has also improved because now there is a single cannon and in a more accessible location. The staff at the plant was fully satisfied, which led to the purchase of 2 additional cannons. The 2nd cannon was installed in the smoke chamber for better accessibility and ease in inspections. The 3rd cannon was installed in the upstream pipeline, to check the north wall of the preheater tower. The plant is expected to purchase another air cannon soon for another area of the plant.

