



● Case Study

Columbian Tiszai Carbon Ltd

Fact file

Location: Columbian Tiszai Carbon Ltd, Hungary
Product: PAS 75 x 4
Principal: Primasonics® International Ltd (UK)
Problem: Severe material build up on vertical walls and base of silos

Client Background

In 2003 Primasonics® were contacted by Mr. Peter Olah a Process engineer who was having problems fully discharging his carbon black storage silos. These silos are 8.6m in diameter and 20.055m in height. On discharging these silos Peter noticed a build up on the conical sections and side walls of the silos, to clean this required hazardous procedures where climbers entered the silos to manually remove the build up.

TECHNICAL DETAILS

Material: Carbon Black
Material Particle Size: 0.25-2.00mm
Silo Construction: Carbon steel with resin lining
Silo Dimensions: Height-20.055m,
Diameter: 8.6m
Silo Discharge: Conical bottom

THE APPROACH

On the advice of Primasonics® staff Peter downloaded a standard silo questionnaire from www.primasonics.com which he completed and returned to Primasonics®. The engineering team at Primasonics® then studied his system parameters before making their recommendations.

Safe, automated, effective prevention and removal of dry powder, particulate build up and blockages.



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THE SOLUTION

A single PAS-75 Acoustic Cleaner system was bought by Columbian Tiszai Carbon for two of these silos. Primasonics® staff provided comprehensive help and advice while Peter's own engineering team commissioned and installed the equipment.

THE RESULT

The installation of the PAS-75 Acoustic Cleaner system has completely prevented the build up of material which has led to less down time for these silos, greater process flexibility and removed the need for hazardous, laborious and costly manual cleaning. This solution proved so effective that in early 2004 two more acoustic cleaners were purchased, this time both acoustic cleaners were put in the same silo which was 13.75m in diameter and 24m in height.

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