

## AIRCHOC® prevents production stoppages due to material build-up

Since 1978, Standard Industrie International has been prominent in the engineering and manufacturing of industrial equipment specialized in the handling, storage and transportation of bulk materials — including coal. Its innovative solutions help improve production performance and efficiency, reduce maintenance costs and risks, and ensure a safer working environment.

Among these solutions, the AIRCHOC® air cannon (picture 1), placed on silos or hoppers, acts preventatively on the material

installed on each of the hoppers (picture 2), to solve the clogging problem. The ATEX model was selected to prevent the risk of explosions.

At the customer's request (picture 3), a switch was installed on each hopper to manually start the AIRCHOC operations four or five times a day, sequenced by the control panel. This frequency of shots ensures efficient cleaning and constant cleaning of the air pipes.

An air filter was installed on each hopper to neutralize fine carbon dust. This



Picture 1.



Picture 2.

inside to prevent it from clogging, thanks to regular shots of air. This is an economical solution that uses air only when the shots are activated. With a wide range (tank capacity from four litres to 400 litres), this solution is suitable for many sectors that handle — including the coal sector.

### CASE STUDY

In one project, a client — a major coal mining company in Indonesia — opted for the AIRCHOC solution to resolve its problems.

The most frequently encountered problem was the blockage of two coal bunkers during the rainy season when the humidity level is very high.

As a temporary measure, the operator used hammers and metal bars to hit the hopper where the coal had accumulated. It also installed liners on the inside to reduce the amount of coal that would adhere to the walls. However, the problem persisted, so at the point, the customer considered the AIRCHOC solution.

Four AIRCHOC ATEX units were

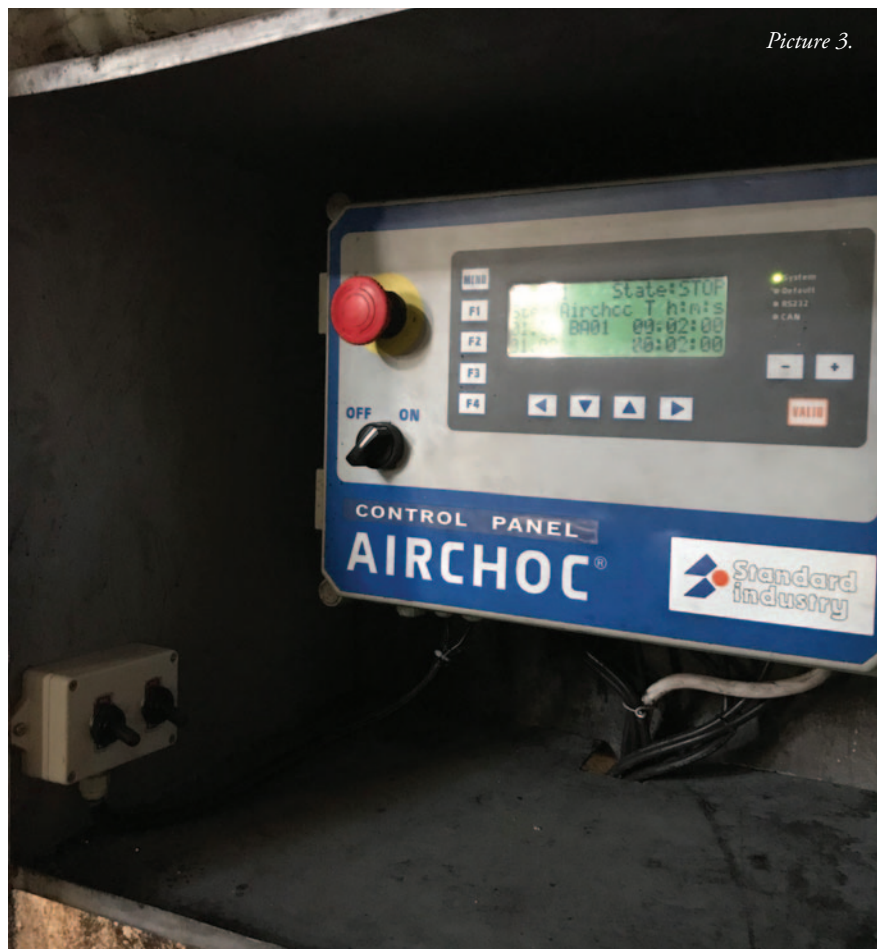
prevents dust from being deposited on the AIRCHOC mechanism and preserves air quality.

### OUTCOME

The customer is satisfied with the result of the installation of AIRCHOC air cannons which allowed him to stop using 'manual' unclogging measures on these two hoppers during the rainy season.

### WIDE RANGE OF USES

AIRCHOC is thus used in many other applications. It is regularly installed on raw material storage units (sand, powders, flours, grains, wood chips, peat, straw, mulch, etc...) all around the world. AIRCHOC® can also be found at the end of the process on fly ash or lime silos.



Picture 3.