Conveying Cereal Fines from Dust Collectors at Food Plant

Applications of Fox Venturi Eductors

CONVEYING WITH: NO MOVING PARTS - NO BLOWBACK - NO MAINTENANCE

CASE STUDY No. 50

PRODUCT

Oat, bran, and other cereal fines

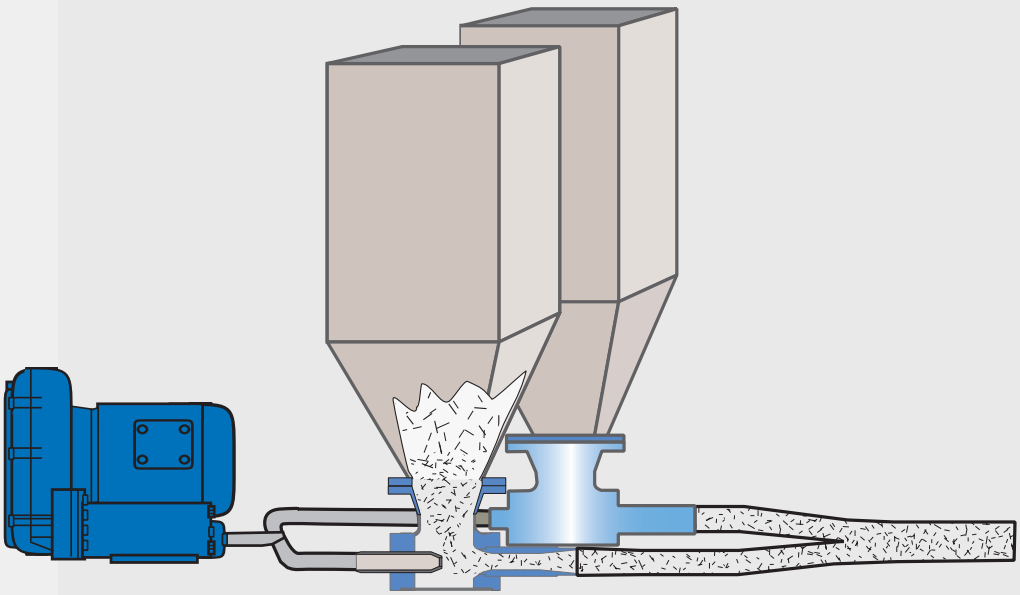
PROBLEM

Various manufacturing processes in a cereal plant generate fines, which are brought to two main dust collectors. These fines were previously allowed to collect in barrels or drums, which were transported via fork-lift. In order to be reclaimed, the forklift operator needed to take an elevator to an upper floor. Dumping these drums was a messy, labor intensive operation.

SOLUTION

Two fully sanitary, Enlarged Suction Port Eductors were installed beneath each collector - both driven with a single blower. Each eductor has a suction opening of 4", which prevents bridging. Each discharges into 2" lines, which are then merged into a common 3" line. Because the eductors are fully USDA-approved, the dust can be reclaimed as a usable food product.

Dust Collector Reclaim



Two fully USDA-approved, Enlarged Suction Port Eductors reclaim cereal fines from two collectors, fed by a single blower, and discharging through a single line.

FOR MORE INFORMATION:

Video: Eductor Replaces Rotary Valve

Visit Our Food Web Page

Visit Our Dust Collector Web Page

FOX VENTURI EDUCTORS

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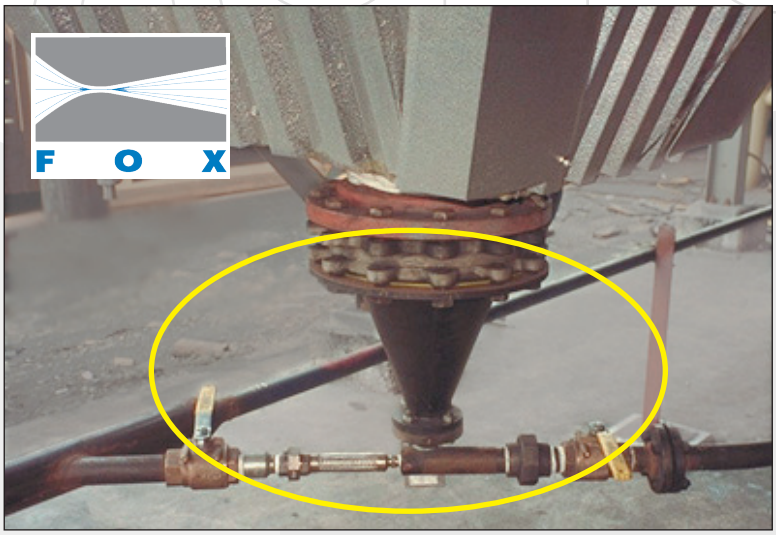
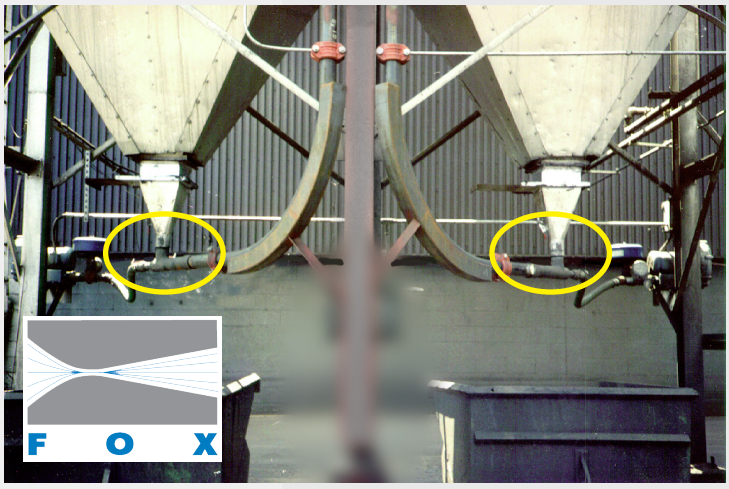
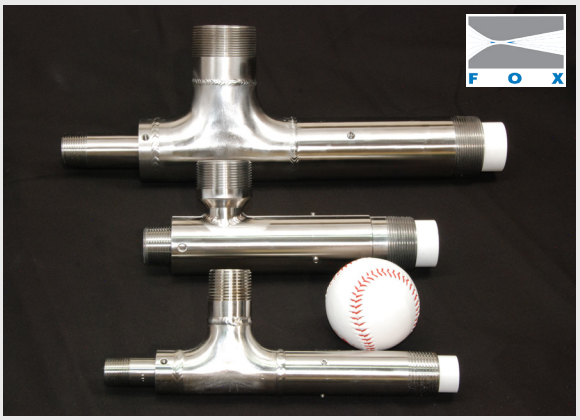


A carbon steel eductor conveys dust.

A carbon steel eductor conveys limestone dust at a mine in Mexico using air from a blower at 3 psig.



Two ceramic lined Fox Eductors are installed under dust collectors at a foundry in the Midwest. The previously used totes are still visible.



Three ceramic lined eductors with stainless steel housings. The ceramic liners are partially removed at the discharge to show how they are replaced in the field.

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