

Prevention of Material Spillage from Vibrating Screens - Cost Effective and Innovative Solution

Doc. No. ADPL/Brochure/Eqpt Perf Imp/004; Rev. No. 00.00; Eff. Date.: 12.02.2025

Background

Vibrating screens of different capacities are integrated part of any material handling circuit especially for Sinter and Coke Plants and for Blast Furnaces where larger size material (Coke, Sinter, ores, etc.) are handled. Screen with cardan shaft arrangement do not have spillage issues, but have high motor vibration issues which can be dealt with separately, here we will focus on spillage issues from the screen which are driven by V-belt arrangement.

Concerns

Unlike conveyor belts of material handling systems, screens usually do not have zero speed switch (ZSS) and run feedback for screen are used as interlock of upstream equipment (conveyor belt or feeder). The interlock is OK till the V-belt is healthy. As we all know, V-belts are prone to sudden failure. As soon as the belt snaps or comes out of the pulley, the motor continues to run, as per logic, upstream belt doesn't stop leading to huge spillage and plant stoppage.

Solution

To eliminate the problem, there are 2 solutions and can be deployed as per applicability. It is a simple, sensor based, “**easy to deploy**” solution and works effectively.

Why It's a Great Solution:

Easy to Implement, Cost effective, Proven method, Improves Process by eliminating spillage.

👉 *For more information you can contact us through our website or email provided above.*