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Dry Bulk Material Conveying Systems

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FLOVEYOR AEROMECHANICAL CONVEYOR PROCESS DETAILS

1. Process balanced system.
2. Volume of material that instantaneously exits from the up tube into the Destination Bin (or similar), while the Destination Bin's displaced equivalent volume of air finds its way to return through the down tube.
3. Displaced air volume returning through the down tube exits the feed housing while an equivalent volume of new material enters the feed housing to go through the up tube.
4. No requirement for an external dust collector, as the volume of displaced dusty air that must exit to the atmosphere is very small. A suitably sized static vent sock accomplishes the task by keeping the dust within the machine, and the air to escape to atmosphere.
5. A given batch amount of material is continuously loaded for a period of time into the destination equipment.
6. Source equipment controls the material flow rate into the system; all material goes through.
7. Destination Bin and Source equipment shall be atmospheric (no vacuum; nor pressure).
8. An air purge or vacuum, while generally thought to be very low pressure (or vacuum) and a non-effect to the system, is a common cause for significant wear to the rope assembly, sprockets, housings, and tubes within a short amount of time. It is the ACFM of such extraneous air flows that unbalance the system resulting and causing such quick wear.
9. Material balance shall be evaluated in order to verify that the system is running in an atmospheric condition; no outside extraneous ACFM is put into nor taken out of the system.
10. With a downstream continuous process, an upper hopper and a lower hopper are mounted in series, with a valve in between, whereby the system loads a given batch amount of material into the upper hopper within a suitable time frame so that the continuous throughput rate out of the lower hopper is not impaired.
11. With an upstream continuous process, an upper hopper and a lower hopper are mounted in series, with a valve in between, whereby the system loads a given batch amount of material from the lower hopper within a suitable time frame so that the continuous throughput rate into the upper hopper is not impaired.
12. Material characteristics only dictate the material's throughput rate within the system.
13. Rope assembly speed is constant to produce a draft pocket behind every disc which results in a space for the material to 'ride' while being conveyed within the up tube.
14. The material is accelerated into the created draft pockets that results in the system's high throughput rate for a such a small size, weight, and power use.
15. Speed is the essence of its operation; therefore, the system can be set at any incline angle between 0° to 90° without detrimental effect to it.
16. Different material bulk densities have no effect as to their conveying within the system.
17. Mixture products do not segregate within the system.
18. Residual amount of leftover within the system is extremely small; what goes in, goes out.
19. System operates in a very lightly loaded condition; 1/30 of that amount for other conveyors.
20. Cleanout with an air hose, or water is quickly accomplished; no removal of the rope assembly is necessary; drain plugs within the housings are supplied for liquids use.
21. System's simplicity is self-evident.

The Conveyor that is Ahead of its Time

DISTRIBUTOR OF THE FLOVEYOR MACHINE
THE ORIGINAL AEROMECHANICAL CONVEYOR