

Reducing Operating and Maintenance Costs at Australian Cement Producer With Our Innovative, Trouble-Free Pneumatic Conveying Solution

CHALLENGE

Infrastructure needs don't stand still and a large Australian construction materials company needed a longer-lasting media solution for their substantial and growing Bulk Material Handling needs.

Material Handling is a mission-critical part of operations and, whenever Air Slide media fails, the cement producer needs to stop the Ball Mill and lose critical production. This client was experiencing multiple unplanned Air Slide Failures per year and needed a trouble-free Pneumatic Conveying solution that wouldn't compromise production.

They approached our team for an Air Slide Media solution that would be more durable and longer-lasting than their existing woven Pneumatic Conveying Solution.

SOLUTION

We recommended moving from conventional woven Air Slide to our DuraSlide™ proprietary Air Slide Media for high flow Pneumatic Conveying of their bulk solids over long distances. DuraSlide™ is constructed by a heavy-duty needling process and offers a number of key advantages.

It is extremely safe and easy to handle and install and does not require tensioning or use of hot tools for heat-sealing the edges. For this client, installation hours were cut by 60%. Most notably, due to the superior properties of our Air Slide media, production losses were cut from 1-2 days per year with unplanned woven Air Slide failures to Zero failures.



After successfully implementing the change from conventional woven Air Slide to our DuraSlide™, the following improvements were demonstrated:

- 60% reduction in number of hours required for Air Slide installation
- 80% reduction in Air Blower usage for same air flow
- Less component wear in Air Blower line and less turbulence inside cement silos due to more uniform airbed formation and air flow
- Doubling of Air Slide Media life
- 83% reduction in yearly operating & maintenance costs

In addition to these direct cost savings, revenue/EBITDA impact from eliminating pneumatic conveying failures for this Cement producer is substantive & impacts their 24/7 production targets for servicing their customers' infrastructure projects.

You can rely on the Micronics Engineered Filtration Group to be your proven source for Filtration Solutions that lower Total Cost of Ownership in demanding industries like Cement around the globe.