

Case Study



Situation:

- ✘ Conveyor was experiencing high levels of carryback which was creating safety hazards and impacting on the environment.
- ✘ The cleaner was approximately 80kg in weight exposing service personnel to manual handling hazards.
- ✘ The time to remove and service the cleaner was an extensive 3-4 hours.

Solution:

- 💡 Undertake carry back testing on existing belt cleaning system.
- 💡 Install TS Global retractable belt cleaners.
- 💡 Undertake carry back testing after TS Global Cleaners installed.



Result:

- ✓ Carry back testing was undertaken on the existing belt cleaning system which confirmed carry back levels of 112kg/hr.
- ✓ The new TS Global products were installed.
- ✓ A second round of testing confirmed that carry back had reduced from 112kg/hr to 10kg/hr i.e an 83% reduction.

The improvement resulted in:

- ✓ a reduction of 670 tonnes of coal spillage per year for just one conveyor,
- ✓ an increase in saleable product,
- ✓ a reduction in environmental impact,
- ✓ a reduction in safety hazards around the conveyor,
- ✓ a reduction in clean-up costs.

Additionally, the use of the retractable cleaner minimised the manual handling exposure from 80kg to 35kg as only the cartridge was required to be removed. Rotable spares were introduced to the site, allowing the cartridge to be built pre-shutdown. This allows the cleaner to be serviced in 30 minutes as opposed to the current 3-4 hours.



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