

Case Study: Hope Downs 4

How Hope Downs 4
Eliminated Product
Carryback

The Client

RioTinto

Hope Downs 4 is a new client to TSGlobal; we have only done 4 shutdowns for them.

They mostly run outdated and not maintained bolt tensioner equipment from ESS.

Aside from spring tensioners on their older XHD models, our spring tensioners were the first of their kind to be used on this site, and the first to be used on secondary and tertiary belt cleaners.

The Problem(s)

Hope Downs 4 was having major product build up and carry back with their CV2206 belt for many years, in short, it was their most problematic belt.

Hope Downs 4 partnered with TS Global to help them overcome the following challenges:

- » They wanted to change this due to the large amount of damage this was causing the system. Belt, rollers and pulleys were being changed too frequently.
- » Plant operators were spending large amounts of time hosing down the area beneath and surrounding the belt due to all the product falling off the belt due to the previous belt scrapers not working correctly.
- » They wanted a system that was much safer to inspect and change for their workers, as there was a risk of dropping the belt scrapers on the old system in the chute during removal and installation while conducting refurb.
- » There were concerns for the manual handling risks associated with lifting the older bulky system, as opposed to the newer lighter systems we have installed.

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The Solution(s)

We had a discussion with the client and showed the system that would be best suited for the issues that were occurring.

The solution had to be:

- » Much more user friendly for the plant fitters/operators for weekly inspections and adjustments that wouldn't damage the belt as long as the instructions were followed that were provided.

To meet these requirements, we installed our latest Retractable **H-Type Spring Tensioned** and **P-Type Spring Tensioned Belt Scrapers**

The Result(s)

The works conducted at Hope Downs 4 helped achieve optimal belt hygiene.

As soon as the system was commissioned after the shutdown was complete the results were immediate, the belt was leaving the head chute with no product holding on, we had numerous staff commenting "we have never seen the belt that black before".

Plant stakeholders were pleased with the slide rail retractable system's reduction in the risk of manual handling as it eliminated the need for staff to remove the entire scraper pole during servicing; instead, they only needed to remove a cartridge.

They were also interested in having spare cartridges for this system because it would allow builds to be done in the workshop area pre shutdown before being mobilized to the system and replaced with the original cartridges resulting in a 30-minute scraper servicing process.

“*I've never seen the belt so clean.*”

Mark Nowland
Asset Health Supervisor at Rio Tinto
Hope Downs 4

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The Result(s)

Here are some before and after our installation:

Before:



After:



Before:



After:



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The Result(s)

Before:



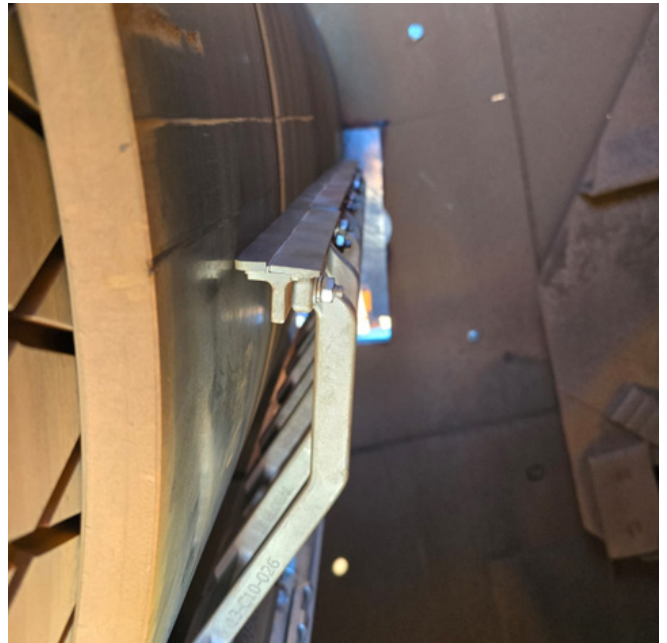
After:



Before:



After:



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The Result(s)

Before:



After:



*If your company is looking to achieve the same results as **Rio Tinto**, contact us!*

TS Global has a proven track record of helping clients achieve conveyor belt cleaning and we'd like to help you do the same.

Contact us today to find out how we can bring winning results.

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