CASE STUDY: K-Sure® Belt Support & K-Containment Seal

Kinder Australia Products:	K-Sure® Belt Support System & K-Containment Seal
Product Category:	Conveyor Belt Support
Site Location:	Ohau Quarry, Levin, New Zealand
Conveyed Material:	Face Rock
Location on Conveyor:	Conveyor Transfer Point
Installation Date:	July 2014 – still in operation

Previous problem:

"Typically, the conveyor belt would be changed out every 3 months due to the re-occurrence of impact damage."

Ohau Quarry had issues with face rock getting past the skirt, resulting in significant damage to the belt. Typically the conveyor belt would be changed out every 3 months due to the re-occurrence of the **impact damage**, caused by the large, sharp face rock lumps striking the belt. Entrapment damage was also being experienced, created by friction between the rock material on the belt, the belt surface and the bottom of the skirt board when the **belt sags**.

The conveyor belt is the most important, and most expensive, component in the conveyor belt system. While all conveyor belts will wear out over time, to ensure reasonable return on investment, damage should be avoided where possible.

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First a belt support system was installed underneath the conveyor belt at the impact zone. The **K-Sure® Belt Support** is designed to support the belt and provide a consistent and stable support for the troughed conveyor belt profile. It was retrofitted, utilising the existing idler frames so no pre-engineering was required. It operates by replacing the existing wing rollers with strong, highly durable low friction polymer slider support rails. It was simple install and will require minimal ongoing maintenance and no adjustments.

Once the belt was supported adequately, conveyor skirting can function along a flat, sag-free belt line. The **K-Containment Seal** is a high performance skirt system that offers exceptional resistance to wear. The slotted system arrangement extends its service life by allowing for further ongoing adjustment after initial installation.

Since installation in July 2014 Ohau Quarry has had no issues with belt sag or belt damage and the same belt is still in operation coming up to 2 years later.

AS/NZS ISO 9001
AS/NZS 4801
OHSAS 18001
AS/NZS ISO 14001
BUREAU VERITAS Certification

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