

CASE STUDY: K-Sure® Belt Support & K-Ultra Dual Seal

Kinder Australia Products:	K-Sure® Belt Support System & K-Ultra Dual Seal
Product Category:	Conveyor Belt Support
Product:	Fired Limestone Powder
Production Rate:	200 tonnes per hour
Belt Speed:	1 metre per second

Previous problem:

- Spillage
- Premature Wear
- Health & Safety Hazards
- Unscheduled Labour Costs

Our customer was experiencing significant product spillage issues causing the trough rollers at the transfer point to seize and wear out prematurely, **pictured here below**.

This is a common problem experienced at transfer points where the force of the conveyor feed through a drop chute from another conveyor, causes **belt edge sag** in between belt supporting rollers. Not only is there spillage, but the skirting arrangement present wears prematurely and a dust hazard is created.

Belt Edge Sag: The weight pressure of the transferred material load causes the conveyor to sag in between the supporting idlers.

For further information go to:
<http://kinder.com.au/productivity/productivity-improvements/belt-edge-sag/>



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The problem was effectively resolved by replacing the existing impact wing rollers under the transfer chute with our, **K-Sure Belt Support System**. This belt support configuration utilises a series of low friction polymer slider bars. K-Sure Belt Support's universal adaptor brackets are then arranged to the existing frame and assembled precisely to suit the conveyor's troughed belt profile.

The System requires no pre-engineering, adjustments or special tools and the outcome has successfully removed the occurrence of belt sag. Now there is no spillage to clean-up, and the already present K-Ultra Dual Seal can effectively contain the blow-out pressure of the dust particles.

Pictured here is the spillage-free transfer point area, the Kinder "K" universal bracket's, K-Sure Support's red polymer slider bars. K-Ultra Dual Seal was pre-existing, but now functions as it was intended and controls dust particles from becoming airborne.

Image below to show
K-Ultra Dual Seal in operation.

