



Customer: Cooperative Bulk Handling Group
Location: Forrestfield, Perth, W.A.
Product: Grain
Date: 2006
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Requirements:

The Cooperative Bulk Handling facility in Perth processes various types of grains through the storage silos for distribution. The time to unload the trains was becoming an issue as the conveyor was only rated at 1000 tph. Aerobelt were asked to double the capacity to 2,000 tph.

The new conveyor needed to be able to:

- Integrate with the existing train unloading system and be capable of carrying all types of grain up the incline to the bucket elevator.
- Mechanically fit within the confines of the existing tunnel.
- Discharge into a new chute to split the flow into two grain streams due to the limitations of the existing bucket elevator.



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Technical Information

Conveyors:	1
Belt width:	1400 mm
Length:	60 m
Inclination:	To 9°
Capacity:	2000 tph
Belt speed:	4.0 m/s
Drive Power:	110 kW
Fan Power:	11 kW
Prod. Density:	0.75 t/m ³



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Solution:

Aerobelt designed and supplied a new 1400mm wide Aerobelt conveyor that was compatible with the tunnel, and was supported with new steelwork. The conveyor that was removed was re-worked by Aerobelt to carry the additional 1000 tph from the discharge chute to a second bucket elevator. Both elevators are rated at 1000 tph.

This enabled the trains to halve the unloading time compared to the original system.



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