

**Customer:** Robe River Mining Co Pty. Ltd.

**Location:** West Angeles Mine, W.A.

**Product:** Prilled ammonium nitrate

**Date of installation:** September 2001

### Requirements:

Sinclair Knight Mertz engaged Kerman Contracting Pty. Ltd. to design and construct a storage facility for prilled ammonium nitrate. A conveyor was required to transfer the product from bottom or rear dump trucks to the storage shed.

The conveyor had to:

- be able to handle a prilled product up a slope of 15°
- be manufactured from stainless steel because of the corrosive nature of the material
- be able to convey the material without degradation.

### Solution:

Aerobelt Australia Pty. Ltd. provided an all stainless steel conveyor that was fed from a purpose designed gang valve installed beneath the feed chute to provide a uniform feed rate.



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### Technical information:

No. of conveyors:	1
Product:	Prilled ammonium nitrate
Belt width:	800 mm
Length:	33.55 m
Inclination:	15°
Capacity:	300 TPH
Belt speed:	2.8 m/s
Drive power:	18.5 KW
Fan power:	1.5 KW
Product density:	0.72 t/m <sup>3</sup>