



**Customer:** Various  
**Location:** Various  
**Product:** Urea / Soda Ash / Rice Seed  
**Date:** Various  
**Page:** 1 of 2

### Requirements:

Our customers needed an ability to load quantities of bulk materials onto or into differing form of transportation from their storage facilities.

The first moveable loader by Aerobelt was of a fixed discharge height and used to load Urea into trucks. A small hopper was filled by a front end loader to feed the conveyor at the design tonnage of 180 tph.

The second loader was for rice seed and was fixed both in height and final location. The 100 tph of rice seed throughput was measured using an Impact Weigher built into the drive station.

The third basic Aerobelt loader was fixed in overall height and for Soda Ash. The conveyor feed was using a small hopper and a bobcat at 50 tph. The bulk material was used to load either bulk bags or small trucks. This loader was fitted with a special dust reduction chute that controlled the amount of dust generated while discharging the material, and incorporated a magnetic section to catch any metal objects that may be present in the Soda Ash.



Aerobelt Australia Pty Ltd  
Unit 1, 8-10 Technology Drive Appin  
NSW Australia 2560  
Phone: (02) 4631 2919  
Fax: (02) 4631 2915  
Email: [info@aerobelt.com.au](mailto:info@aerobelt.com.au)  
Web: [www.aerobelt.com.au](http://www.aerobelt.com.au)  
ABN: 80 070 635 791





**Customer:** Various  
**Location:** Various  
**Product:** Urea / Soda Ash / Rice Seed  
**Date:** Various  
**Page:** 2 of 2

### **Solution:**

The fourth style of loader had the ability to change the overall height of unit and subsequently the discharge point. We included a rack and pinion to enable the height to be adjustable, and was loaded using a vibratory feeder and magnet assembly.

The last two loader assemblies were more complex with the ability to be able to swing around from a fixed pivot point at the loading or feed point. One of the designs could raise and lower to cater for the changes in sea levels at the wharf. This design was for 250 tph of grain and the other loader with a fixed height was for 100 tph of Soda Ash and Soda Ash Light. This Soda Ash conveyor had a telescopic chute fitted to reduce the amount airborne dust generated when loading on ground based storage.



Aerobelt Australia Pty Ltd  
Unit 1, 8-10 Technology Drive Appin  
NSW Australia 2560  
Phone: (02) 4631 2919  
Fax: (02) 4631 2915  
Email: [info@aerobelt.com.au](mailto:info@aerobelt.com.au)  
Web: [www.aerobelt.com.au](http://www.aerobelt.com.au)  
ABN: 80 070 635 791

