



**Customer:** Bundaberg Sugar  
**Location:** Bundaberg, QLD  
**Product:** Sugar Cane  
**Date:** May 2011  
**Page:** 1 of 2

### Requirements:

Bundaberg Walker Engineering on behalf of Bundaberg Sugar approached Aerobelt Australia to design a new sugar cane receival system and provide a new sugar cane conveyor to feed the mill. Slat chain conveyors were being used and they did not provide the flexibility required to handle the sugar cane and were very expensive to maintain. The new system had to:

- Accept sugar cane from both the existing rail system and by road, at the same time.
- Segregate the sugar cane from each farmer and provide adequate storage capacity for two full trucks into the system.
- Increase the tonnage capacity from 330 to 400 tph and have the ability to vary the tonnage rate into the mill



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### Technical Information

Conveyors:	3
Belt width:	1800 / 2400 mm
Length:	83 m
Inclination:	To 16°
Capacity:	400 tph
Belt speed:	0.15 / 1.6 m/s
Drive Power:	30 / 45 / 22 kW
Fan Power:	7.5 kW
Prod. Density:	0.35 t/m <sup>3</sup>





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### **Solution:**

Aerobelt designed a system using two 2.4m wide flat feeder conveyors and an 1800mm wide Aerobelt conveyor. All three conveyors incorporated variable speed controllers to vary the feed rate into the mill.

The road hopper and rail hoppers could accept and store the volume generated by either rail or road. This equated to two or more discharges from either method. The 1800 mm Aerobelt feeding the mill could be fed by both delivery methods, but not at the same time. This prevented any mixing of sugar cane from different farmers.



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