








**ELETRONICA
SANTERNO**

**REFERENCE AUSTRALIA APPLICATION SINUS PENTA 690Vac
Elettronica Santerno adds a new reference for conveyor belt application.**

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|  |  <p>Country: Australia City: Newcastle(NSW) Application name: Rail unloader Application: Conveyor belt</p> <p>Technical Specification: Length 1st conveyor:300m Length 2nd conveyor :5 Km n°3 AC motors 900kW 50Hz @ 690Vac n°1 AC motor 500kW 50Hz @ 690Vac Conveyor belt speed:5m/s</p> |
| <p>General description</p> <p>At the unloading station all wagons loaded of coal are sent. The coal is unloaded in an underground conveyor screw where, through a 300m conveyor (motor 500 kW) is brought at the surface level and sent to the main conveyor belt.</p> |  <p>Unloading station Harvest</p> |
| <p>The 3 900kW motors drive the 5Km conveyor belt which transports the coal to the thermoelectric power (see picture). The conveyor is driven by 2 motors in master-slave connection in the head and one motor in the tail; the communication between inverters and PLC in via Ethernet.</p> |  <p>900kw motor Master-Slave motors</p> |
| <p>Technical data</p> <p>All motors are managed and controlled by 3 SINUS PENTA in FOC mode. The complete system is a regenerative system than all drives can regenerate into the net. The motor's inverters (n°3 0831 and n°1 0457) are supplied and connected in DC BUS through the Regenerative inverters of the same size. All drives are equipped with an Ethernet card for communication.</p> |  <p>5 km way to the Thermoelectric Power Plant</p> |