

CASE STUDY: K-MotorShield Motor Covers

Kinder Australia Product:	<u>K-MotorShield Motor Covers</u>
Product Category:	Safety & Environmental
Location:	Victoria
Conveyed Materials:	Basalt Quarry Products
Production Capacity	100 tonnes per hour
Installation Date:	April 2017

CHALLENGE:

- Motors exposed to environmental elements
- Production down-time due to regular belt cleaning
- Increased maintenance time & costs
- Reduction in motor life

Located in North Western Victoria, our customer is a premier quarry operator, specialising in producing high quality basalt products. Increasing demand has seen the site's production facility at full capacity easily exceeding 100 tonnes per hour.

It was evident at the routine site inspection, the motors under the secondary and tertiary crushers were unprotected. This daily exposure allowed the build-up of dust, rock and other debris, and over time resulting in the motor drives overheating with significant reduction in the motor life. These environmental factors have meant maintenance work was also required to manually clean the motors ensuring maximum efficiency with minimal production down-time.



ABOVE
Image BEFORE Installation



ABOVE
Image AFTER Installation



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SOLUTION:



Product Links

[K-MotorShield Motor Covers](#)

The original **K-MotorShield Motor Covers** were proven to be highly effective and it was identified further **K-MotorShield Motor Covers** were required for installation in other areas of the plant.

Kinder Australia recommended the installation of **K-MotorShield Motor Covers** as a preventative maintenance measure with the view of protecting and improving the operational efficiency of all the motors on site and extending the motor's product life cycle.

K-MotorShield Motor Covers are designed to ensure electric motor drives perform efficiently, preventing dust and rock debris from blocking motor airflow keeping motors cleaner and allowing for easier maintenance.

Being lightweight, corrosion free, snap-on and durable in design these key product attributes facilitated the cutting and installation of the **K-MotorShield Motor Covers** to be simple & hassle free with the execution managed through an external engineering company.

RESULTS:

- *Cleaner motors allow for easier maintenance*
- *Reduction in clean-up costs and time*
- *Elimination of down-time*
- *Extension of motor life*

Our customer has reported positive feedback due to the recent preventative maintenance solution. The protective covers have reduced the amount of environmental debris building up on the motors, destroying bearings, windings and brushes on drive motors. This effectively creates efficiency in airflow of up to 140% through the cooling fins. Prevention of motors from overheating improving profitability through extended motor life was also a highlight for this installation.

These durable, high performance and simple to install **K-MotorShield Motor Covers** delivers on its promise of improving the operations efficiency & productivity with less manual cleaning of the motors and reduction in production down-time.



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