



CASE STUDY

GRADER BLADES

PROJECT

GRADER BLADES

CLIENT

CONSMIN



OVERVIEW

Consolidated Minerals Australia (ConsMin) is a mid-size mining company headquartered in West Perth, Western Australia. The company's key asset, the Woodie Woodie manganese mine, is situated in the Pilbara region, around 400km southeast of Port Hedland. Renowned globally, Woodie's high-grade manganese ore commands a price premium due to its superior quality and low impurity levels.

Given the significance of Woodie Woodie's ore quality and the high standards required for its extraction, ConsMin necessitated durable and cost-effective grader blades for their operations. These blades are crucial for maintaining roadways and other site infrastructure needed for the efficient transportation and extraction of the high-value ore. To ensure they had the best equipment, ConsMin undertook a comparative analysis of various suppliers to find the most reliable and economical solutions suitable for their demanding environment.

PROBLEM

ConsMin was dealing with dual challenges in their operational efficiency:

Supplier Comparison: The company had multiple suppliers for grader blades and needed to evaluate them based on pricing and product longevity.

Durability Challenge: Given the rigorous operational demands at the Woodie Woodie mine, the grader blades needed to demonstrate extended durability while also being cost-effective.



RESULTS

27%

Longer lifespan compared to OEM blades

30%

Lower cost per blade compared to OEM

40%

Reduction in Total Cost of Ownership per machine per annum by using MWP blades

SOLUTION

In response to ConsMin's need for durable and cost-effective equipment, we provided our advanced grader blades for a performance evaluation. Our blades were rigorously tested under the same conditions as those from the other suppliers to establish a baseline for comparison.

The comparison revealed significant differences in performance, highlighting the durability and cost-effectiveness of our grader blades.

The OEM blades demonstrated an operational lifespan of 180-230 hours.

The Mining Wear Parts blades lasted 260 hours, representing an average increase of life of 27% when compared to the OEM blades.

This durability, combined with a lower overall cost compared to the OEM blades, suggests that our blades offer superior performance and significant cost savings by reducing the need for frequent replacements and minimising downtime.

Using our blades our customer was able to reduce the annual number of scheduled change-outs per machine from 43 to 34. This meant our client saved on the cost of extra blade sets, the labour cost of replacing the blades, and also an unproductive period during which the machine wasn't in use.

BENEFITS

INCREASED LONGEVITY

- Our blades demonstrated an operational lifespan of 260 hours, surpassing the 180-230 hour longevity of products from other suppliers.

COST SAVINGS

- Not only did our blades offer enhanced durability, but they also came at a lower price point, delivering exceptional value.

CONTINUED PARTNERSHIP

- Given the superior performance and cost benefits, ConsMin decided to continue sourcing our products for all applicable uses, establishing a long-term supply relationship that ensures their operational efficiency and cost management in the demanding conditions of the Woodie Woodie mine.

