

MINING WEAR PARTS (MWP), IS A **NATIONAL SUPPLIER** OF TRUSTED, RELIABLE, **HIGH-QUALITY** AFTERMARKET CRUSHER AND PUMP PARTS.

### CUSTOMER

Northern Star Resources Limited (Northern Star), is an Australian gold producer with Tier-1 world class projects located in highly prospective regions of Australia and North America. Northern Star's Jundee operation in Western Australia, Australia, uses a conventional carbon in leach (CIL) plant circuit, starting with a single toggle overhead eccentric swing jaw crusher.

### CHALLENGE

The customer looking for improvements to extend the life of both the fixed and swing liners on the primary C125 Norberg jaw crusher. The current 2-piece configuration was causing the liners to move beyond what is necessary and that was resulting in premature wear on the middle wedges.

### SOLUTION

Using customer data and industry experience, our in-house engineering team redesigned the jaw crusher assembly changing it from a 2 piece to a 1-piece configuration that restricts movement that was responsible for wear on the middle wedges. In addition to the redesign, MWP also upgraded the material of the liners to a heavy-duty Ceramic metallic inserts (CMI) to maximise usable wear life, reducing operating costs associated with early changeouts.

### FURTHER INNOVATION

With the success of the C125 improvements, the customer has asked that MWP continue to provide quality aftermarket parts for their C125 crusher and HP6. This includes further assistance with liner developments for the HP6.

**CUSTOMER:** Northern Star Resources  
**SITE:** Jundee, Western Australia  
**COMMODITY:** Ore

### SOLUTION RESULTS

The design change and material improvements provided by MWP have resulted in a 71% life increase on the fixed and swing jaw of the customers C125 primary Crusher. These improvements resulted in an additional 5 weeks of usable wear life, an increase from 7 weeks to 12 weeks.

