MINING WEAR PARTS

CASE STUDY

BUCKET WEAR PACKAGE

PROJECT

ENGINEERING, DESIGN & SUPPLY OF BUCKET WEAR PACKAGE

CLIENT

MARLEE RESOURCES

OVERVIEW

Mining Wear Parts (MWP) was engaged to develop and supply a complete wear package for a mining bucket being prepared for operation in the Western Australian Goldfields. The scope extended beyond the supply of Ground Engaging Tools (GET), with MWP responsible for scanning the bucket internals and engineering the complete internal wear configuration.
The final package included internal cheek plates, rolled-back wear sections and GET, providing the customer with a complete engineered wear solution ready for installation.

PROBLEM

The customer required a complete wear package designed around the existing bucket geometry rather than a standard component-only supply.
The requirement was to:

- Accurately capture the internal bucket profile
- Engineer the internal wear configuration
- Design the individual wear components around the bucket
- Incorporate GET into the complete package
- Supply the finished wear package ready for installation

The objective was clear: provide an integrated wear solution designed specifically around the bucket and its intended application.

SOLUTION

MWP completed a detailed scan of the bucket internals to establish the geometry required for engineering and design. Using the scan data, the team engineered the internal configuration and developed the complete wear package, including:

- Internal cheek plates
- Rolled-back wear sections
- Ground Engaging Tools (GET)
- Associated wear components

The completed package was manufactured and supplied to the customer for installation.

The customer engaged a third-party welding provider to complete the installation of the MWP-designed wear package.

OUTCOME

The completed bucket is now being prepared for deployment to a mining operation in the Goldfields. The project demonstrates MWP's capability to support customers beyond individual wear component supply, combining site scanning, engineering, design and wear product supply into a complete application-specific package. By engineering the wear system around the bucket itself, MWP provided the customer with a coordinated solution ready for installation and deployment.