

Brake Calliper Change Out Tool

Anglo American Metallurgical Coal – Capcoal Surface Operations

The Problem

The initial idea for the Brake Calliper Change Out tooling was raised by the crew in their monthly safety meeting. It had been identified that a tool was needed to replace the brake callipers on our new fleet of 830E trucks. The calliper weighs approximately 60kgs and using two people to manoeuvre this was an unacceptable safety risk presenting unacceptable manual handling hazards to the tradesman involved.

The Solution

Capcoal Surface Operations Maintenance B Crew discussed the problem as a team and a site design was shortly underway for the most practical solution that would assist in lifting and manoeuvring the brake callipers and avoiding unnecessary manual handling on these 830E Trucks. The idea came from the team with various people providing input into the 830E tooling. The design they came up with is a Capcoal original and has not been modified from any other piece of equipment (Please see attached photos of the 830E Tooling).

Benefits/Effects

This team made a positive impact in the way they work in their own department to strive for excellence and zero harm. By creating this piece of equipment they have not only been able to avoid unnecessary lifting and straining in changing out the brake calliper on the 830E Trucks, but have also contributed to overall effectiveness in the workshop due to the fact that there have also since been a multitude of other areas that the tool can be used within the workshop.

Transferability

The tool is not only effective in managing the issue of manual handling with the 830E Brake Callipers it can also be used throughout the workshop in a multitude of other areas, for example the tool has been used to replace the cutting edge on a grader.

Innovation

This tool is completely original in its design with the concept and manufacture being completed by the work group in a collaborative manner arising from a concern from a Crew Safety Meeting.

