

Company: Pacific Coal Pty Limited
Site : Tarong Coal Operations

Oxy – Acetylene Trolley

The new trolley with the larger wheels and pneumatic tyres makes a much easier task of rolling over any differences between surfaces in and around the workshop.

The swivel jockey wheel removes the need for a man to take the weight of the trolley while moving it from place to place. The trolley is supported at a suitable angle (just past the balance point) on three wheels and does not require any vertical support by the operator. The operator is free to provide the necessary lateral force to move and maneuver the trolley as required.

The leg of the third wheel provides an ideal location to mount a fire extinguisher thus ensuring that an appropriate fire extinguisher is always present at the work site when oxy-acetylene is being used.

The impingement plate between the cylinders and the improved anchor system has increased safety and the security of the cylinders in the trolley.

- **Have any further modifications and improvements made since the first attempts to solve the problem**

This jockey wheel has had limits placed on the amount of rotation so as to maintain the footprint of the three wheels. It was found that when the wheel rotated to the most inner position that it was too close to the centre of gravity of the trolley and there was an increased potential to topple.

Further improvements to the overall situation have been:

- The removal of the spoon drain and its replacement with a channel drain with a covering grate. This has permanently removed the issue of the dip created by the spoon drain.
- The reorganisation of the space within the workshop so that the trolleys can be stored inside the main workshop.

THE BENEFITS:

The major effect of the new trolley has been to significantly reduce the manual effort required to maneuver the trolleys around the workshop.

In making the trolleys more stable and improving the cylinder anchor system, there has been a reduction in the risk of a trolley toppling over and spilling a cylinder onto the ground.

Fitting a fire extinguisher to the trolley now means that the appropriate extinguisher is always at hand whenever any oxy-acetylene work is being done.

