

Mt OWEN MINE REJECTS BIN

Design - Construct Project



KEY FEATURES

- Optimised mass flow of sticky high clay rejects material
- Automated Euclid truck optimised fast filling system
- Gate design achieves fully loaded dump trucks
- Highly structurally efficient design for economic functional construction

OVERVIEW

This gate design is typical of the innovation pioneered by IPUT. Initially deployed very successfully at Bayswater Colliery then Bulga Coal. Now the proven 44,000t/hr gate design was combined with enhancements in bin structure design, as pioneered by IPUT's principals at Cumnock mine. This gate design was the first to make full use of the carrying capacity of modern haul trucks and, at time of publication (2017), had not been matched. This state of the art rapid action gate creates a boiling effect that flood loads the tray, requiring less trips than a more traditional load mounding that doesn't fill the body to its rated capacity.

Interestingly, client side engineers **insisted** the bin cone be detachable, and added their design flange to the lower cone. This flange was the only part to fail in service - and it failed on all bins on site that the flange was added to. There is no substitute for experience when it comes to bin design. IPUT continues to produce bins that work, reliably.

Refer to: www.iput.com.au/projects/mto-rb for more details.

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