

Bowen Qld Mine REJECTS SCREEN THROUGHPUT UPGRADE Design - Construct Project



KEY FEATURES

- New General Kinematics Corp screen bolted to same supports as original Ludowici screen
- 308t/hr nameplate screen replaced by 800t/hr nameplate with 1,000t/hr struct rating
- Old screen being run at up to 690t/hr and losing magnetite; new screen 0.4kg/t @800t/hr
- Installation techniques widely praised for safety and effectiveness getting in tight location

OVERVIEW

The Mine wanted to put more throughput on the rejects screen to keep the mine profitable and allow the CPP to produce a thermal product / deal with various coal seam issues. Replacing the existing 3.6m x 6.1m reject screen with a 4.2m wide screen seemed the only option, which required expensive structural and other mods to the plant. iPUT's solution was to install a new generation high throughput GK screen and fit it within existing screen envelope with just walkway and piping mods, plus a conveyor drive upgrade. The new design screen was specially configured to allow the existing backward feed chute to be reused without modifications. Despite some teething problems from the new design, GK proved to be an excellent partner with this installation and went well beyond all expectations to make this the most successful adoption of new tech the industry has seen in a long while, and a very robust, coal industry proven product going forward.

Refer to: www.iput.com.au/projects/qld-rej for more details.

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