

# BRADKEN

## SUCCESS STORY

### 3" Hoist Chain

Bradken is a leading manufacturer of differentiated consumable wear products.

Bradken's 3" lower hoist chain at Isaac Plains located near Moranbah, which is situated in the Bowen Basin region of Queensland, Australia has again proven to be a success. The lower hoist chain highlighted Bradken's ability to deliver a product with extended wear life and ultimately provide a better end product to the user, outlasting previous alloy's and designs utilised by the mine site.

**Bradken's 3" upper and lower hoist chain offers numerous benefits over competitor's offerings:**

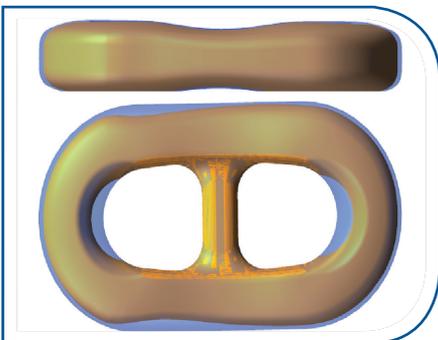
- Reduced chain mass reducing the overall mass of the rigging package
- Bradken superior materials provide an extended product life
- Designed to fit with Bradken's **APT™** pins resulting in reduced inventory costs
- Increased contact area in crutches and crutch thickness in high wear areas
- Optional rail treatments for lower hoist chain to protect against wear from sliding on the bucket



3" Hoist Chain in service



3" Hoist Chain prior to being removed



3" Hoist Chain wear overlay

**Location:** Issac Plains, Queensland, Australia

**Machine:** BE1370 Dragline

**Product:** 30HC09SS-11 - 3" Lower Hoist Chain

**Installation Location:** Lower Hoist

**Conditions:** Heavy duty digging

In August 2012 Bradken fitted a new set of lower 3" hoist chain on a BE1370 dragline at Isaac Plains with the assistance of Jason McCallum (Production Superintendent) in addition to an Integrated Socket Equaliser (ISE), Drag and Dump chains and **APT** Dragline rigging pins. The chain was designed to create a uniform and tangential contact face for improved wear control, along with optimised stud-end and step-up chain links to provide more crutch contact surface area.

The Bradken product was compared to the previous hoist chain in service which had an average of life of twelve (12) to fifteen (15) weeks. Bradken's hoist chain almost doubled the previous maximum wear life, when it was removed after twenty-nine (29) weeks in service in March 2013.

During this period, the dragline was running at 120% RSL and digging in heavy duty conditions, 75% of which was chop. The dragline moved 7.8 million BCM's (10.2 BCY's) of overburden during this seven (7) month period.

Inspection after twenty-nine (29) weeks showed the worst single link wear in the crotch region was approximately 31.6%, whilst the worst single link rail wear was 20.4%.

In addition to the base chain product, Bradken is also able to offer customised rail treatments to prolong the life of your lower hoist chain.

For more information on hoist chain and how it can give your mine site the advantage, visit [bradken.com](http://bradken.com) for your local representative.