

BRADKEN

SUCCESS STORY

Class 2 - Upper Hoist

Bradken is a leading manufacturer of differentiated consumable wear products.

In June 2012 Bradken successfully installed an Integrated Socket Equaliser (ISE), Hoist Link and Hoist Clevis with APT™ Pins onto an M8050 dragline at the Colowyo coal mine in Colorado, USA providing immediate benefits to the site.

Bradken's patented ISE offers numerous benefits over competitor's conventional offerings, including:

- Reduced overall mass of the rigging package
- Reduced inventory, replacing five upper rigging components
- Reduced rigging height, saving 1.2m (4ft) for higher spoiler
- Extended product life by utilising Bradken superior materials
- Reduced maintenance costs
- Designed to fit with Bradken's APT pins resulting in reduced inventory costs
- Hoist Socket Wedges are easier to assemble based on ISE design



Previous Upper Hoist Rigging Setup



Harmonise Upper Hoist in service



Harmonise Upper Hoist in action

Location: Colowyo Mine, Colorado, USA

Machine: M8050 Dragline

Product: M2790 (ISE), M2495 (Hoist Link) and M2394 (Hoist Clevis)

Installation Location: Upper Hoist

Conditions: Medium to Hard digging

Bradken's Harmonise™ upper hoist rigging system has been designed as a complete package providing safe operation across specified service intervals, resulting in minimised downtime and a reduction in the costs associated with frequent inspection and the replacement and refurbishment of rigging components.

Colowyo installed an ISE onto their M8050 dragline after experiencing ongoing issues with the dragline becoming spoil bound, requiring them to bring a second dragline in to move the overburden before the end of the pit.

By utilising the ISE, Colowyo was able to shorten their rigging height by 1.2m (4ft) enabling them to have an increased spoil height, this reduced the need for walking and increased productive digging time for each set.

In addition to this production improvement, Colowyo also experienced improved dragline productivity and expects improved main pendent life as the reduction in rigging mass (1,166kgs/2,570lbs) has lowered the Total Suspended Load (TSL) and vibration to these supports.

For more information on Harmonise™ and APT™ pins and how they can give your mine site the advantage, visit bradken.com for your local representative.

