Proven payload performance
The Problem
Downtime means lost production

Draglines today are a key component of many surface mining operations, and often the largest single asset at the site. Since availability and utilisation of the machine is a critical priority, operators are increasingly pushed for more production and less downtime. Understanding what operations actually contribute most toward failures can be a tough problem to understand.

The Solution

The PULSETerraMetrix DL was developed over 15 years ago to help dragline owners reduce structural failures on their draglines while helping to simultaneously increase production.

Benefits of PTM Management

Health Monitoring
- Finite Element Model (FEM) driven inspection planning
- “Event” alarms based on known poor operating practices
- Inertial swing rate and pad grade detection vs. structural stress

Production Monitoring:
- Advanced payload measurement
- GPS machine location and heading, dig and dump locations
- Down time, dig times, swing times, cycle times, propel times, etc.
- Operator Logins, crew schedules, delay codes
- Management KPI’s including Operator Effectiveness

Centralised Information:
- Fleet Manager, Machine Manager & Mine Plan Manager
- Real-time view of the operator’s HMI
- Training documentation, Report Archives
- Daily distributed reports

BMT’s unique approach to dragline monitoring gives the operator real-time information to understand what situations cause high stress, allowing them to continuously improve their skill and techniques to achieve the highest production with the least amount of damage.

BMT’s extensive research on operator performance and machine damage has led to the implementation of discreet, event-based alarms. These real-time alarms provide excellent training tools to constantly improve operator performance.

Time-stamped data is constantly recorded to provide mine management with the necessary information to improve the operations where the operators cannot.

Installing a PULSETerraMetrix DL system on your machine can be accomplished in as little as 12 hours by BMT engineers.

Unrivaled Accuracy
BMT engineers calibrate the on-board payload system with highly accurate load cells. Combining this with FEM analysis results in truly exceptional payload accuracy.

Insightful
A typical emailed report presents information on production and structural health seamlessly by operator.
BMT provides the mining industry with a high level forensic analysis capability. Our substantial on-site experience provides for superior maintenance and product support of the PULSETerraMetrix System.

Want to learn more about how we can support you?

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