Proven payload performance
The Problem
Poor utilization of a shovel has a direct impact on mine production. Truck overloads result in higher maintenance costs, premature tire failure, and rejected truck loads. Excess fatigue damage to shovel structures causes an increase in maintenance costs and downtime. These effects result in significant production losses over time.

The Solution
High production shovel operations demand efficient and accurate truck loading.

Key Features
- Proven payload accuracy
- Improved productivity
- Optimum truck loading
- Mine plan compliance
- Quick and easy calibration
- Dispatch integration
- Ability to set truck by truck payload targets and configurable compliance ranges
- Fully modular, standalone design
- Utilizes easily accessible Microsoft SQL Server database
- Optional, integrated and robust, RFID system
- Lidar terrain mapping integration for machine positioning and mine to plan
- Unparalleled support

Health Monitoring
Pulse
Monitor the structural health of the shovel with configurable alarming of events to compliment operator training intervention.

Machine Positioning and Mining to Plan
Terra
Coupled with HPGPS and direct real-time Lidar-based measurement of bank cross sections, superior mine plan compliance can be achieved.

Payload Optimisation
Metrix
High fidelity payload measurement system supports dipper carryback compensation whilst maintaining unrivalled payload accuracy in all operating conditions.
Benefits of PTM Shovel management

The PULSEterraMetrix System offers significant benefits to mine production, including:

- Accurate real-time indication of dipper and truck payload empowers operators to optimize truck loads and consistently achieve targets with fewer overloads.

- Continuous monitoring of extreme events allows the mine to regulate maintenance intervals and maximize shovel availability.

- Automated statistical analysis of these metrics with periodic reporting gives management tools to improve operator performance and mine planning.

- Payload information and structural health can be used as an indication of operator effectiveness and digging conditions.

- Payload and digability data can be used to improve blasting efficiency.

Modular

Rugged, modular design facilitates maintenance and future upgrades, and allows for rapid interchange of hardware when required.

Insightful

Maintenance, training and production staff can easily access relevant data to identify production shortfalls and where further operator training is required.
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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