Underground Mine Optimization

The DISPATCH mine management system optimizes underground production through total activity management of all mobile equipment. Using state-of-the-art field hardware, the solution delivers heightened productivity, increased efficiency, and optimum production to your fleet.

With over 30 years of grooming in the mining industry, more than 20 underground, the field-proven DISPATCH system is the only underground mine management technology to deliver sustained value for over 5 years at several world class mines. The system is easily scalable, both as optional software modules on the server side, and as additional, purpose-built field hardware solutions. From the production face to the office, the DISPATCH system provides unparalleled underground mine management.
The DISPATCH Underground system maximizes productivity by proactively delivering relevant information to each equipment unit, allowing the operator to make the right decisions. Rugged RF Tag-based equipment positioning, equipment health monitoring, maintenance tracking, and production reporting are standard with each system. Additional modules are available that address the following underground issues:

**Safety**
Know where your equipment is at all times using the Position Tracking module. Communicate with equipment operators using text messages.

**Location Management**
Use the Location Status features to reduce reaction times to hung up draw points and other face-related problems. Monitor the inventory level of each location on a load-by-load basis with the Inventory module, reducing unnecessary travel and queuing times.

**Fleet Management**
- **Mine to Plan** using Tramming Schedules. Monitor LHD cycle times, optimizing your tramming distances and mine layout. Manage material grades and compute shaft head feed grades in real time.
- **Measure** accurate cycle times, minimize contention and delays. Assign trucks to the right LHD or chute. Track the status of each piece of equipment and monitor operator KPIs.
- **Assign** locomotives to the fullest ore chutes, optimizing throughput. Coordinate multi-level activity.
- **Manage** development and long-hole drills, mechanized bolters and other auxiliary equipment such as graders and scissor lifts. Centrally administer all tasks and assign them wirelessly to operators. Report on equipment performance and review historical activities, including travel paths and equipment idle periods.

**Consumables**
Manage wear parts and dispensable consumables such as fuel and explosives; predict when consumables will wear or run out. Improve delivery and logistics of supplies with the Equipment Fueling and Major Component Tracking modules.

**ModularReady Interfaces**
Capture payload information from third-party LHD and Truck systems. Collect Equipment Health information in real time, issuing alarms when thresholds are exceeded.

**Crew Management**
Know where your equipment is at the start of shift and assign the oncoming crew with the LineUp utility. Use Training Records to ensure that only suitably qualified operators are allocated to each piece of equipment.

**Communications Network**
Use your existing Leaky Feeder system or install a purpose-built, high bandwidth distributed antenna system that is 802.11 (WiFi) compliant.

The interactive MineGraphics utility allows you to track equipment in real time.

Purpose-built field hardware provides operators a direct link to central control.

For more information, please contact your account manager or regional sales office.

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